

1	TAATTGTGTA	CTTGCCAGAA	GGATCTGTCT	TTAAATCATT	AATGCAGGCA
51	ACATTTCTCT	CTAGAGCCAT	CAATGTGATT	CTACTGGCTG	AAAAATGTAA
101	TAAAGATGGA	TTTTCTTATC	ATTTTCTTTT	TACTTTTTAT	TGGGACTTCA
151	GAGACACAGG	TTGATGTTTC	CAATGTCGTT	CCTGGTACTA	GGTACGATAT
201	AACCATCTCT	TCAATTCTTA	CAACATACAC	CTCACCTGTT	ACTAGAATAG
251	TGACACCAAA	TGTAACAAAA	CCAGGGCCTC	CAGTCTTCCT	AGCCGGGGAA
301	AGAGTCGGAT	CTGCTGGGAT	TCTTCTGTCT	TGGAATACAC	CACCTAATCC
351	AAATGGAAGG	ATTATATCTT	ACATTGTCAA	ATATAAGGAA	GTTTGTCCGT
401	GGATGCAAAC	AGTATATACA	CAAGTCAGAT	CAAAGCCAGA	CAGTCTGGAA
451	GTTCTTCTTA	CTAATCTTAA	TCCTGGAACA	ACATATGAAA	TTAAGGTTGC
501	TGCTGAAAAC	AGTGCTGGCA	TTGGAGTGTT	TAGTGATCCA	TTTCTCTTCC
551	AAACTGCAGA	AAGTGCTCCA	GGAAAAGTGG	TGAATCTCAC	AGTTGAGGCC
601	TGCAACGCTA	CAGCAGTTAA	GCTGATTGGG	TATTTACCTC	GGCAACCAAA
651	TGGCAAAATT	ACCAGCTTCA	AGATTAGTGT	CAAACATGCC	AGAAGTGGGA
701	TAGTAGTGAA	AGATGTCTCA	ATCAGAGTAG	AGGACATTTT	GACTGGGAAA
751	TTGCCAGAAT	GCAATGAGAA	TAGTGAATCT	TTTTTATGGA	GTACAGCCAG
801	CCCTTCTCCA	ACCCTTGGTA	GAGTTACACC	TCCATCGCGT	ACCACACATT
851	CATCAAGCAC	GTTGACACAG	AATGAGATCA	GCTCTGTGTG	GAAAGAGCCT
901	ATCAGTTTTG	TAGTGACACA	CTTGAGACCT	TATACAACAT	ATCTTTTGA
951	AGTTTCAGCT	GCTACAACCT	AAGCAGGTTA	TATTGATAGT	ACGATTGTCA
1001	GAACACCAGA	ATCAGTGCCT	GAAGGACCAC	CACAAAACCT	CGTAACAGGC
1051	AACATCACAG	GAAAGTCCTT	TTCAATTTTA	TGGGACCCAC	CAACTATAGT
1101	AACAGGGGAA	TTTAGTTATA	GAGTTGAATT	ATATGGACCA	TCAGGTTCGCA
1151	TTTTGGATAA	CAGCACAAAA	GACCTCAAGT	TTGCATTTCAC	TAACCTAACA
1201	CCATTTACAA	GTTATGATGT	CTATATTGCG	GCTGAAACCA	GTGCAGGGAC
1251	TGGGCCCAAG	TCAAATATTT	CAGTATTTCAC	TCCACCAGAT	GTTCCAGGGG
1301	CAGTGTTTGA	TTTACAACCT	GCAGAGGTAG	AATCCACGCA	AGTAAGAATT
1351	ACTTGGAAGA	AACCACGACA	ACCAAATGGA	ATTATTAACC	AATACCGAGT
1401	GAAAGTGCTA	GTTCCAGAGA	CAGGAATAAT	TTTGGAAAAT	ACTTTGCTCA
1451	CTGGAAATAA	TGAGTATATA	AATGACCCCA	TGGCTCCAGA	AATTGTGAAC
1501	ATAGTAGAGC	CAATGGTAGG	ATTATATGAG	GGTTCAGCAG	AGATGTCGTC
1551	TGACCTTCAC	TCACTTGCTA	CATTTATATA	TAACAGCCAT	CCAGATAAAA
1601	ACTTTCTGTC	AAGGAATAGA	GCTGAAGACC	AGACTTCACC	AGTTGTAACCT
1651	ACAAGGAATC	AGTATATTAC	TGACATTGCA	GCTGAACAGC	TGCTTTATGT
1701	TATCAGGAGA	CTTGTACCTT	TCACTGAGCA	CATGATTAGT	GTATCTGCTT
1751	TCACCATCAT	GGGAGAAGGA	CCACCAACAG	TTCTCAGTGT	TAGGACACGT
1801	CAGCAAGTGC	CAGCTCCAT	TAAAAATATA	AACTATAAAA	ATATTAGTTC
1851	TTCATCTATT	TTGTTATATT	GGGATCCTCC	AGAATATCCC	AATGGAAAAA
1901	TAACCTACFA	TACGATTAT	GCAATGGAAT	TGGATACAAA	CAGAGCATT
1951	CAGATAACTA	CCATAGATAA	CAGCTTTCTC	ATAACAGGGT	TAAAGAAATA
2001	CACAAAATGC	AAAATGAGAG	TGGCAGCCTC	AACCCACGAT	GGAGAAAAGT
2051	CTTTGTCTGA	AGAAAATGAC	ATCTTTGTGA	GAACCTCAGA	AGATGAACCG
2101	GAATCATCAC	CTCAAGATGT	CGAAGTAATT	GATGTTACCG	CAGATGAAAT
2151	AAGGTTGAAG	TGGTCACCCAC	CCGAAAAGCC	CAATGGGATC	ATTATTGCTT
2201	ATGAAGTGCT	ATATAAAAAT	ATAGATACTT	TATATATGAA	GAACACATCA
2251	ACAACAGACA	TAATATTAAAG	GAACCTAAGA	CCTCACACCC	TCTATAACAT
2301	TTCTGTAAAG	TCTTACACCA	GATTTGGTCA	TGGCAATCAG	GTATCTTCTT
2351	TACTCTCTGT	AAGGACTTCG	GAGACTGTGC	CTGATAGTGC	ACCAGAAAAAT
2401	ATCACTTACA	AAAATATTTC	TTCTGGAGAG	ATTGAGCTAT	CATTCTCTCC
2451	CCCAAGTAGT	CCCAATGGAA	TCATAAAAAA	ATATACAATT	TATCTCAAGA
2501	GAAGTAATGG	AAATGAGGAA	AGAACTATAA	ATACAACCTC	TTTAACCCAA
2551	AACATTAAAG	TACTGAAGAA	ATATACCCAA	TATATCATTG	AGGTGTCTGC
2601	TAGTACACTG	AAAGGTGAAG	GAGTTCGGAG	TGCTCCCAT	AGTATACTGA
2651	CGGAGGAAGA	TGCTCCTGAT	TCTCCCCCTC	AAGACTTCTC	TGTAAAAACAG
2701	TTGTCTGGTG	TCACGGTGAA	GTGTTCATGG	CAACCACCCC	TGGAGCCAAA
2751	TGGAATTATC	CTTTATTACA	CAGTTTATGT	CTGGAATAGA	TCATCATTAA
2801	AAACTATTAA	TGTCACCTGAA	ACATCATTGG	AGTTATCAGA	TTTGGATTAT
2851	AATGTTGAAT	ACAGTGCTTA	TGTAACAGCT	AGCACCAGAT	TTGGTGATGG
2901	GAAAAACAGGA	AGCAATATCA	TTAGCTTTCA	AACACCAGAG	GGAGCACC
2951	CGCATCCTCC	CAAGATGTTT	TATTATGCAA	ACCTCAGTTC	TTCATCAATA
3001	ATTCCTTTCT	GGACACCTCC	TTCAAAAACCT	AATGGGATTA	TACAATATTA
3051	CTCTGTTTAT	TACAGAAATA	CTTCAGGTAC	TTTTATGCAG	AATTTTACAC
3101	TCCATGAACT	AACCAATGAC	TTTGACAATA	TGACTGTATC	CACAATTATA
3151	GATAAACTGA	CAATATTTCAG	CTACTATACA	TTTTGGTTAA	CAGCAAGTAC
3201	TTCAGTTGGA	AATGGGAATA	AAAGCAGTGA	CATCATTGAA	GTATACACAG
3251	ATCAAGACAT	ACCTGAAGGG	TTTGTGGGAA	ACCTGACTTA	CGAATCCATT
3301	TCGTCAACTG	CAATAAATGT	AAGCTGGGTC	CCACCGGCTC	AACCAAACCG
3351	TCTAGTCTTC	TACTATGTTT	CACTGATCTT	ACAGCAGACT	CCTCGCCATG
3401	TGAGACCACC	TCTTGTTACA	TATGAGAGAA	GCATATATTT	TGATAATCTG

FIGURE 1A

3451 GAAAAATACA CTGATTATAT ATTAAAAAT ACTCCATCAA CAGAAAAGGG
3501 ATTCTCTGAT ACCTATACTG CCCAGCTATA CATCAAGACT GAAGAAGATG
3551 TCCCAGAAAC TTCACCAATA ATCAACACTT TTAAAAACCT TTCCTCTACC
3601 TCAGTTCTCT TATCATGGGA TCCCCAGTA AAGCCAAATG GTGCAATAAT
3651 AAGTTATGAT TTAACCTTAC AAGGACCAAA TGAAAATTAT TCTTTCATTA
3701 CTCTCTGATA TTACATAATA TTGGAAGAGC TTTCCACCATT TACATTATAT
3751 AGCTTTTTTG CTGCCGCAAG AACTAGAAAA GGACTTGGTC CTCCAGTAT
3801 TCTTTTCTTT TACACAGATG AGTCAGTGCC GTTAGCACCT CCACAAAATT
3851 TGACTTTAAT CAACTGTACT TCAGACTTTG TATGGCTGAA ATGGAGCCCA
3901 AGTCCTCTTC CAGGTGGTAT TGTTAAAGTA TATAGTTTAA AAATTTCATGA
3951 ACATGAAACT GACACTATAT ATTATAAGAA TATATCAGGA TTAAAACTG
4001 AAGCCAAACT TGTGGACTG GAACCAGTCA GCACCTACTC TATCCGTGTA
4051 TCTGCGTTCA CCAAAGTTGG AAATGGCAAT CAATTTAGTA ATGTAGTAAA
4101 ATTCACAACC CAAGAATCAG TTCCAGATGT CGTGCAAGAT ATGCAGTGCA
4151 TGGCAACTAG CTGGCAGTCA GTTTTAGTGA AATGGGATCC ACCCAAAAAG
4201 GCAAATGGAA TAATAACGCA GTATATGGTA ACAGTTGAAA GGAATTCTAC
4251 AAAAGTTTCT CCCCAGATC ACATGTACAC TTTTATAAAG CTTCTTGCCA
4301 ATACCTCATA TGTCTTTAAA GTAAGAGCTT CAACCTCAGC TGGTGAAGGT
4351 GATGAAAGCA CATGCCATGT CAGCACACTA CCTGAAACAG TTCCCACTGT
4401 TCCCACAAAT ATTGCTTTT CTGATGTTCA GTCAACTAGT GCAACATTGA
4451 CATGGATAAG ACCTGACACT ATCCTTGGCT ACTTTCAAAA TTACAAAATT
4501 ACCACTCAAC TTCGTGCTCA AAAATGCAAA GAATGGGAAT CCGAAGAATG
4551 TGTGTAATAT CAAAAAATTC AATACCTCTA TGAAGCTCAC TTAAGTGAAG
4601 AGACAGTATA TGGATTAAAG AAATTTAGAT GGTATAGATT CCAAGTGGCT
4651 GCCAGCACC ATGCTGGCTA TGGCAATGCT TCAAACTGGA TTTCTACAAA
4701 AACTCTGCCT GGCCCTCCAG ATGGTCTCCTC TGAAAATGTT CATGTAGTAG
4751 CAACATCACC TTTTAGCATC AGCATAAGCT GGAGTGAACC TGCTGTCATT
4801 ACTGGACCAA CATGTTATCT GATTGATGTC AAATCGGTAG ATAATGATGA
4851 ATTTAATATA TCCTTCATCA AGTCAAATGA AGAAAATAAA ACCATAGAAA
4901 TTAAGATTAT AGAAATATTC ACAAGGTATT CTGTAGTGAT CACTGCATTT
4951 ACTGGGAACA TTAGTGCTGC ATATGTAGAA GGGAAAGTCAA GTGCTGAAAT
5001 GATTGTTACT ACTTTAGAAT CAGCCCCAAA GGACCCACCT AACAAATGA
5051 CATTTTCAGAA GATACCAGAT GAAGTTACAA AATTTCAATT AACGTTCTTT
5101 CCTCCTTCTC AACCTAATGG AAATATCCAA GTATATCAAG CTCTGGTTTA
5151 CCGAGAAGAT GATCCTACTG CTGTCCAGAT TCACAACCTC AGTATTATAC
5201 AGAAAACCAA CACATTGCTC ATTGCAATGC TAGAAGGACT AAAAGGTGGA
5251 CATACATACA ATATCAGTGT TTACGCAGTC AATAGTGCTG GTGCAGGTCC
5301 AAAGGTTCCG ATGAGAATAA CCATGGATAT CAAAGCTCCA GCACGACCAA
5351 AAACCAAACC AACCCTATT TATGATGCCA CAGGAAAACCT GCTTGTGACT
5401 TCAACAACAA TTACAATCAG AATGCCAATA TGTTACTACA GTGATGATCA
5451 TGGACCAATA AAAAATGTAC AAGTGCTTGC GACAGAAACA GGAGCTCAGC
5501 ATGATGGAAA TGTAACAAAG TGGTATGATG CATATTTTAA TAAAGCAAGG
5551 CCATATTTTA CAAATGAAGG CTTTCCTAAC CCTCCATGTA CAGAAGGAAA
5601 GACAAAGTTT AGTGGCAATG AAGAAATCTA CATCATAGGT GCTGATAATG
5651 CATGCATGAT TCCTGGCAAT GAAGACAAAA TTGCAATGG ACCACTGAAA
5701 CCAAAAAAGC AATACTTATT TAAATTTAGA GCTACAAATA TTATGGGACA
5751 ATTTACTGAC TCTGATTATT CTGACCCTGT TAAGACTTTA GGGGAAGGAC
5801 TTTTCAGAAAG AACCGTAGAG ATCATTCTTT CCGTCACTTT GTGTATCCTT
5851 TCAATAATTC TCCTTGGAAC AGCTATTTT GCATTTGCAA GAATTTCGACA
5901 GAAGCAGAAA GAAGGTGGCA CATACTCTCC TCAGGATGCA GAAATTATTG
5951 AACTAAATT GAAGCTGGAT CAGCTCATCA CAGTGGCAGA CCTGGAAGT
6001 AAGGACGAGA GATTAACGCG GCCAATAAGC AAGAAATCCT TCCTGCAACA
6051 TGTGGAAGAG CTTTGACCAA ACAACAACCT AAAGTTTCAA GAAGAATTTT
6101 CGGAATTACC AAAATTTCTT CAGGATCTTT CTTCACATGA TGCTGATCTG
6151 CCTTGAATA GAGCAAAAAA CCGTTTCCCA AACATAAAAC CATATAATAA
6201 TAATAACAGA GTAAAGCTGA TAGCTGACGC TAGTGTTCCA GGTTCGGATT
6251 ATATTAATGC CAGCTATATT TCTGGTTATT TATGTCCAAA TGAATTATT
6301 GCTACTCAAG GTCCACTACC AGGAACAGTT GGAGATTTT GGAGAAATGGT
6351 GTGGGAAACC AGGCAAAAAA CATTAGTAAT GCTAACACAG TGTTTTGAAA
6401 AAGGACGGAT CAGATGCCAT CAGTATTGGC CAGAGGACAA CAAGCCAGTT
6451 ACTGTCTTTG GAGATATAGT GATTACAAAG CTAATGGAGG ATGTTCAAAT
6501 AGATTGGACT ATCAGGGATC TGAAAATTGA AAGGCATGGG GATTGCATGA
6551 CTGTTTCGAA GTGTAACCTT ACTGCCTGGC CAGAGCATGG GGTTCCTGAG
6601 AACAGCGCCC CTCTAATTCA CTTTGTGAAG TTGGTTCGAG CAAGCAGGGC
6651 ACATGACACC ACACCTATGA TTGTTCACCT CAGTGCTGGA GTTGGAAAGAA
6701 CTGGAGTTT TATTGCTCTG GACCATTTAA CACAACATAT AAATGACCAT
6751 GATTTTGTGG ATATATATGG ACTAGTAGCT GAAGTGAAG GTGAAAGAAAT
6801 GTGCATGGTG CAGAATCTGG CACAGTATAT CTTTTTACAC CAGTGCATTC
6851 TGGATCTCTT ATCAAATAAG GGAAGTAATC AGCCCATCTG TTTTGTAAAC
6901 TATTCAGCAC TTCAGAAGAT GGACTCTTTG GACGCCATGG AAGGTGATGT
6951 TGAGCTTGAA TGGGAAGAAA CCACTATGTA AATATTGAGA CCAAAGGATA

FIGURE 1B

```

7001  CAATTGGAAG AGATTTTAA ATCCCAGGGG CCAAAGTTAC CCCCTCATTC
7051  TTCGGAATTG AAATGTGCAA CCTTAAAGAA ATATCTATGC TTCTCTCACT
7101  GTGCCTTT
      (SEQ ID NO: 1)

FEATURES:
5'UTR:      1-105
Start Codon: 106
Stop Codon  6979
3' UTR 6982

Homologous proteins:
Top 10 BLAST Hits

Sequences producing significant alignments:

CRA|148000053730152 /altid=gi|12621078 /def=ref|NP_075214.1| pr... 2375 0.0
CRA|89000000193395 /altid=gi|7290546 /def=gb|AAF45998.1| (AE003... 363 2e-98
CRA|18000004876831 /altid=gi|158645 /def=gb|AAA28952.1| (M80538... 363 2e-98
CRA|18000004876357 /altid=gi|157296 /def=gb|AAA28484.1| (M80465... 363 2e-98
CRA|89000000195290 /altid=gi|7292674 /def=gb|AAF48072.1| (AE003... 360 1e-97
CRA|18000004876735 /altid=gi|433182 /def=gb|AAA76834.1| (L20894... 359 2e-97
CRA|18000004952843 /altid=gi|548624 /def=sp|P35992|PTP1_DROME P... 359 3e-97
CRA|18000004996351 /altid=gi|103342 /def=pir||D41214 protein-ty... 359 3e-97
CRA|18000005034127 /altid=gi|1362625 /def=pir||A49502 protein-t... 358 5e-97
CRA|18000005034128 /altid=gi|1362626 /def=pir||B49502 protein-t... 358 5e-97

EST:

Sequences producing significant alignments:

gi|6036191 /dataset=dbest /taxon=9606 ... 454 e-124

EXPRESSION INFORMATION FOR MODULATORY USE:
gi|6036191 colon adenocarcinoma

Tissue expression:
Placenta

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FIGURE 1C

```

1  MDFLIIFLLL  FIGTSETQVD  VSNVVPGTRY  DITISSISTT  YTSPVTRIVT
51  PNVTKPGPPV  FLAGERVGSA  GILLSWNTTP  NPNGRIISYI  VKYKEVCPWM
101 QTVYTQVRSK  PDSLEVLTLN  LNPGETTYEIK  VAAENSAGIG  VFSDPFLFQT
151 AESAPGKVVN  LTVEAYNASA  VKLIWYLPQ  PNGKITSFKI  SVKHARSGIV
201 VKDVSIRVED  ILTGKLPECN  ENSSEFLWST  ASPSPTLGRV  TPPSRTHSS
251 STLQNEISS  VWKEPISFVV  THLRPYTTYL  FEVSAATTEA  GYIDSTIVRT
301 PESVPEGPPQ  NCVTGNITGK  SFSILWDPPT  IVTGKFSYRV  ELYGPSGRIL
351 DNSTKDLKFA  FTNLTPFTMY  DVIYAAETSA  GTGPKSNISV  FTTPDVPGAV
401 FDLQLAEVES  TQVRITWKKP  RQPNGIINQY  RVKVLVPETG  IILENTLLTG
451 NNEYINDPMA  PEIVNIVEPM  VGLYEGSAEM  SSDLHSLATF  IYNSHDPKNF
501 PARNRAEDQT  SPVVTTRNQY  ITDIAAEQLS  YVIRRLVPFT  EHMISVSAFT
551 IMGEGPPTVL  SVRTRQVPS  SIKIINYKNI  SSSSILLYWD  PPEYPNGKIT
601 HYTIYAMELD  TNRAFQITTI  DNSFLITGLK  KYTKYKMRVA  ASTHDGESSL
651 SEENDIFVRT  SEDEPESSPQ  DVEVIDVTAD  EIRLKWSPPE  KPNGIIIAYE
701 VLYKNIDTLY  MKNTSTTDII  LRNLRPHTLY  NISVRSYTRF  GHGNQVSSLL
751 SVRTSETVPD  SAPENITYKN  ISSGEIELSF  LPPSSPNGII  KKYTIYLLRS
801 NGNEERTINT  TSLTQNIKVL  KKYTOYIEV  SASTLKGEV  RSAPISILTE
851 EDAPDSPPPQ  FSVKQLSGVT  VKLSWQPPL  PNGIILYYTV  YVWNRSSLKT
901 INVTETSLEL  SLDLYNVEYS  AYVTASTRFG  DGKTGSNIIS  FQTPEGAPSD
951 PPKDVYYANL  SSSSIILFWT  PPSKPNGIIQ  YYSVYRNTS  GTFPMQNTLH
1001 ELTNDFDNMT  VSTIIDKLTI  FSYYTFWLTA  STSVGNNGKS  SDIIEVYTDQ
1051 DIPEGFVGNL  TYESISSTAI  NVSWVPPAQ  NGLVFYVSL  ILQQTPRHVR
1101 PPLVTYERSI  YFDNLEKYTD  YILKITPSTE  KGFSDTYTAQ  LYIKTEEDVP
1151 ETSPIINTFK  NLSTSVLLS  WDPVPKPNGA  IISYDLTLQG  PNENYSFITS
1201 DNYIILEELS  PFTLYSFFAA  ARTRKGLGPS  SILFFYTDSE  VPLAPPQNL
1251 LINCTSDFVW  LKWSPLPG  GIVKVYSFKI  HEHETDIY  KNISGFKTEA
1301 KLVGLEPVST  YSIRVSAFTK  VGNGNQFSNV  VKFTTQESVP  DVVQNMOCMA
1351 TSWQSVLVKW  DPPKKANGII  TQYMTVERN  STKVSQDQHM  YTFIKLLANT
1401 SYVFKVRAST  SAGEGDESTC  HVSTLPETVP  SVPTNIAFSD  VQSTSATLTW
1451 IRPDTILGYF  QNYKITTLR  AQKCKEWESE  ECVEYQKIY  LYEHLTEET
1501 VYGLKKFRWY  RFQVAASTNA  GYGNASNWIS  TKTLPGPPDG  PPENVHVVAT
1551 SPFSISISWS  EPAVITGPTC  YLIDVKSVDN  DEFNISFIKS  NEENKTIEIK
1601 DLEIFTRYSV  VITAFTGNIS  AAYVEGKSSA  EMIVTTLESA  PKDPPNMFTF
1651 QKIPDEVTKF  QLTFLPPSQP  NGNIQVYQAL  VYREDDPTAV  QIHNLISIIQ
1701 TNTFVIAMLE  GLKGGHTYNI  SVYAVNSAGA  GPKVPMRITM  DIKAPARPKT
1751 KPTPIYDATG  KLLVTSTTIT  IRMPICYSD  DHGPIKNVQV  LATETGAQHD
1801 GNVTKWYDAY  FNKARPYFTN  EGFPPNPCTE  GKTKFSGNEE  IYIIGADNAC
1851 MIPGNEDKIC  NGPLKPKKQY  LFKFRATNIM  GQFTDSYSD  PVKTLGEGLS
1901 ERTVEIILSV  TLCILSIILL  GTAIFAFARI  RQKQKEGGTY  SPQDAEIIDT
1951 KLKLDQLITV  ADLELKDERL  TRPISKKSFL  QHVEELCTNN  NLKFQEEFSE
2001 LPKFLQDLSS  TDADLPWNRA  KNRFPNIKPY  NNNNRVKLIA  DASVPGSDYI
2051 NASYISGYLC  PNEFIATQGP  LPGTVGDFWR  MWETRAKTL  VMLTQCFEKG
2101 RIRCHQYWPE  DNKPVTVFGD  IVITKLMEVD  QIDWTIRDLK  IERHGDCMTV
2151 RQCNFTAWPE  HGVPENSAPL  IHFVKLVRAS  RAHDTTPMIV  HCSAGVGRTG
2201 VFIALDHLTQ  HINDHDFVDI  YGLVAELRSE  RCMQVQNLAQ  YIFLHQICLD
2251 LLSNKGSNQP  ICFVNYALQ  KMDSLDAMEG  DVELEWEETT  M
(SEQ ID NO: 2)

```

FEATURES:

Functional domains and key regions:

[1] PDOC00001 PS00001 ASN_GLYCOSYLATION
N-glycosylation site

Number of matches: 39

```

1      52-55 NVTK
2    1802-1805 NVTK
3      160-163 NLTV
4      167-170 NASA
5      316-319 NITG
6      352-355 NSTK
7    1380-1383 NSTK
8      387-390 NISV
9      731-734 NISV
10   1719-1722 NISV
11     579-582 NISS
12     770-773 NISS
13     713-716 NTST
14     387-390 NISV
15     731-734 NISV
16   1719-1722 NISV

```

FIGURE 2A

17	765-768	NITY
18	579-582	NISS
19	770-773	NISS
20	809-812	NTTS
21	894-897	NRSS
22	902-905	NVTE
23	959-962	NLSS
24	1161-1164	NLSS
25	988-991	NTSG
26	996-999	NFTL
27	1008-1011	NMTV
28	1038-1041	NKSS
29	1059-1062	NLTY
30	1071-1074	NVSW
31	959-962	NLSS
32	1161-1164	NLSS
33	1194-1197	NYSF
34	1248-1251	NLTL
35	1253-1256	NCTS
36	1292-1295	NISG
37	352-355	NSTK
38	1380-1383	NSTK
39	1399-1402	NTSY

[2] PDOC00004 PS00004 CAMP_PHOSPHO_SITE
cAMP- and cGMP-dependent protein kinase phosphorylation site

Number of matches: 3

1	630-633	KKYT
2	791-794	KKYT
3	821-824	KKYT

[3] PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site

Number of matches: 38

1	187-189	SFK
2	1277-1279	SFK
3	191-193	SVK
4	862-864	SVK
5	205-207	SIR
6	1312-1314	SIR
7	213-215	TGK
8	318-320	TGK
9	333-335	TGK
10	1759-1761	TGK
11	213-215	TGK
12	318-320	TGK
13	333-335	TGK
14	1759-1761	TGK
15	213-215	TGK
16	318-320	TGK
17	333-335	TGK
18	1759-1761	TGK
19	337-339	SYR
20	346-348	SGR
21	353-355	STK
22	1381-1383	STK
23	1530-1532	STK
24	416-418	TWK
25	515-517	TTR
26	561-563	SVR
27	733-735	SVR
28	751-753	SVR
29	571-573	SIK
30	611-613	TNR
31	561-563	SVR
32	733-735	SVR
33	751-753	SVR
34	561-563	SVR
35	733-735	SVR

FIGURE 2B

36 751-753 SVR
37 767-769 TYK
38 834-836 TLK

[4] PDOC00006 PS00006 CK2_PHOSPHO_SITE
Casein kinase II phosphorylation site

Number of matches: 47

1 17-20 TQVD
2 28-31 TRYD
3 109-112 SKPD
4 125-128 TTYE
5 254-257 TQNE
6 303-306 SVPE
7 353-356 STKD
8 368-371 TMYD
9 392-395 TPPD
10 494-497 SHPD
11 618-621 TTID
12 642-645 STHD
13 649-652 SLSE
14 660-663 TSED
15 661-664 SEDE
16 668-671 SPQD
17 1385-1388 SPQD
18 1941-1944 SPQD
19 678-681 TADE
20 687-690 SPPE
21 715-718 STTD
22 757-760 TVPD
23 761-764 SAPE
24 772-775 SSGE
25 849-852 TEED
26 1145-1148 TEED
27 906-909 TSLE
28 911-914 SDLD
29 998-1001 TLHE
30 1013-1016 TIID
31 1048-1051 TDQD
32 849-852 TEED
33 1145-1148 TEED
34 1334-1337 TTQE
35 1338-1341 SVPD
36 668-671 SPQD
37 1385-1388 SPQD
38 1941-1944 SPQD
39 1411-1414 SAGE
40 1424-1427 TLPE
41 1558-1561 SWSE
42 1590-1593 SNEE
43 1628-1631 SSAE
44 1635-1638 TTLE
45 1836-1839 SGNE
46 1884-1887 TDSD
47 1894-1897 TLGE

[5] PDOC00007 PS00007 TYR_PHOSPHO_SITE
Tyrosine kinase phosphorylation site

Number of matches: 2

1 704-710 KNIDTLY
2 1933-1940 KQKEGGTY

FIGURE 2C

[6] PDOC00008 PS00008 MYRISTYL
N-myristoylation site

Number of matches: 17

1	13-18	GTSETQ
2	71-76	GILLSW
3	315-320	GNITGK
4	472-477	GLYEGS
5	694-699	GIIIAY
6	743-748	GNQVSS
7	1037-1042	GNKSSD
8	1179-1184	GAIISY
9	1226-1231	GLGPSS
10	1324-1329	GNQFSN
11	1523-1528	GNASNW
12	1617-1622	GNISAA
13	1711-1716	GLKGGH
14	1845-1850	GADNAC
15	2162-2167	GVPENS
16	2195-2200	GVGRTG
17	2200-2205	GVFIAL

[7] PDOC00017 PS00017 ATP_GTP_A
ATP/GTP-binding site motif A (P-loop)

1621-1628 AAYVEGKS

[8] PDOC00323 PS00383 TYR_PHOSPHATASE_1
Tyrosine specific protein phosphatases active site

2190-2202 VHCSAGVGRTGVF

Membrane spanning structure and domains:

Candidate membrane-spanning segments:

Helix	Begin	End	Score	Certainty
1	3	23	0.743	Putative
2	542	562	1.032	Certain
3	955	975	0.971	Putative
4	1017	1037	1.332	Certain
5	1073	1093	0.694	Putative
6	1544	1564	0.948	Putative
7	1606	1626	0.852	Putative
8	1908	1928	2.284	Certain
9	2185	2205	0.677	Putative

FIGURE 2D

BLAST Alignment to Top Hit:
CRA|148000053730152 /altid=gi|12621078 /def=ref|NP_075214.1| protein
tyrosine phosphatase, receptor type, Q [Rattus
norvegicus] /org=Rattus norvegicus /taxon=10116
/dataset=nraa /length=2302
Length = 2302

Score = 4104 bits (10526), Expect = 0.0
Identities = 1977/2302 (85%), Positives = 2139/2302 (92%), Gaps = 11/2302 (0%)
Frame = +1

Query: 1 MDFLIIFLLLFIGTSETQVDVSNVVPGTRYDITISSIS-TTYTSPVTRIVTPNVTKPGPP 177
MDF FL L IGTSE+QVDVS+ GT YDIT+SS+S TTY+SPV+R + NVTKPGPP
Sbjct: 2 MDFHFSFLFLLIGTSESQVDVSSSFDGTGYDITLSSVSATTYSSPVSRTLATNVTKPGPP 61

Query: 178 VFLAGERVGSAGILLSWNTPPNPNGRIISYIVKYKEVCPWMQTVYTVQVRSKPDSLEVLLT 357
VFLAGERVGSAGILLSWNTPPNPNGRIISY+VKYKEVCPWMQY Y+ R+KPDSLEVLLT
Sbjct: 62 VFLAGERVGSAGILLSWNTPPNPNGRIISYVVKYKEVCPWMQYAYTRARAKPDSLEVLLT 121

Query: 358 NLNPGTTYEIKVAAENSAGIGVFSDFLQTAESAPGKVVNLTVEAYNASAVKLIWYLPR 537
NLNPGTTYEIKVAAEN+AGIGVFSDFLQTAESAPGKVVNLTVEA N SAV LIWYLPR
Sbjct: 122 NLNPGTTYEIKVAAENNAGIGVFSDFLQTAESAPGKVVNLTVEALNYSAVNLIWYLPR 181

Query: 538 QPNGKITSFKISVKHARSGIVVKDVSIRVEDILTGLPECNENSESFLWSTASPSPTLGR 717
QPNGKITSFKISVKHARSGIVVKDVS+RVEDIL+GKLPECNENSESFLWST SPSPTLGR
Sbjct: 182 QPNGKITSFKISVKHARSGIVVKDVSRLVEDILSGKLPECNENSESFLWSTTSPSPTLGR 241

Query: 718 VTTPSRTHSSSTLTQNEISSVWKEPISFVVTHLRPYTTYLFEVSAATTEAGYIDSTIVR 897
VTP RTT SSST +++ISSVWKEPISFVVTHLRPYTTYLFEVSA TTEAGYIDSTIVR
Sbjct: 242 VTPTVRTTQSSSTAARSKISSVWKEPISFVVTHLRPYTTYLFEVSAVTEAGYIDSTIVR 301

Query: 898 TPESVPEGPPQNCVTGNITGKSFSILWDPPTIVTGKFSYRVELYGPSGRILDNSTKDLKF 1077
TPESVPEGPPQNC+ GN+TGK+FSI WDPPTIVTGKFSYRVELYGPSGRILDNSTKDL+F
Sbjct: 302 TPESVPEGPPQNCIMGNVTGKAFFISWDPPTIVTGKFSYRVELYGPSGRILDNSTKDLRF 361

Query: 1078 AFTNLTPFTMYDVYIAAETSAGTGPKSNISVFTPPDVPGAVFDLQLAEVESTQVRITWKK 1257
AFT+LTPTFTMYDVY+AAETSAG GPKSN+SVFTPPDVPGAVFDLQ+AEVE+T++RITW+K
Sbjct: 362 AFTHLTPFTMYDVYAAETSAGVGPKNLSVFTPPDVPGAVFDLQIAEVEATEIRITWRK 421

Query: 1258 PRQPNGIINQYRVKVLVPETGIILENTLLTGNNEYINDPMAPEIVNIVEPMVGLYEGSAE 1437
PRQPNGII+QYRVKV V ETG++LENTLLTG +E I++PM+PEI+N+V+PM+G YEGS E
Sbjct: 422 PRQPNGIISQYRVKVSLETGVVLENTLLTGQDESISNPMSPPEIMNLVDPMIGFYEGSGE 481

Query: 1438 MSSDLHSLATFIYNHPDKNFARNRAEDQTSPPVVTTRNQYITDIAAEQLSYVIRRLVPF 1617
MSSDLHS A+FIYNHP +FPA RAE+Q+SPVVTTRNQY+TDI AEQLSYV+RRLVPF
Sbjct: 482 MSSDLHSPASFIYNHPHNDFPASTRAEEQSSPPVVTTRNQYMTDITAEQLSYVVRRLVPF 541

Query: 1618 TEHMISVSFAFTIMGEGPPTVLSVTRTQQVPSSIKIINYKNISSSSILLYWDPPEYPNGKI 1797
TEH ISVSFAFTIMGEGPPTVL+VRTR+QVPSSI+IINYKNISSSSILLYWDPPEYPNGKI
Sbjct: 542 TEHTISVSFAFTIMGEGPPTVLTVRTRTREQVPSSIQIINYKNISSSSILLYWDPPEYPNGKI 601

Query: 1798 THYTIYAMELDTNRAFQITIDNSFLITGLKKYTKYKMRVAASTHDGESSLSEENDIFVR 1977
THYTIYA ELDTNRAFQ+TT+DNSFLITGLKKYT+YKMRVAASTH GESSLSEENDIFVR
Sbjct: 602 THYTIYATELDTNRAFQMTTVDNSFLITGLKKYTRYKMRVAASTHVGESSLSEENDIFVR 661

Query: 1978 TSEDEPESSPDQVEVIDVTADEIRLKWSPPEKPNGIIIAEVLKYKNIDTLYMKNTSTTDI 2157
T EDEPESSPDQV+V V+ E+RLKWSPPEKPNGIIIAEVLKY+N DTL++KNTSTTDI
Sbjct: 662 TPEDEPESSPDQVQTVGVSPELRLKWSPPEKPNGIIIAEVLKYQADTLFVKNTSTTDI 721

Query: 2158 ILRNLRPHTLYNISVRSYTRFGHGNQVSSLLSVRTSETVPDSAPENITYKNISSGEIELS 2337
I+ +L+P+TLYNIS+RSYTR GHGNQ SSLLSVRTSETVPDSAPENITYKNISSGEIE+S
Sbjct: 722 IISDLKPYTLYNISIRSYYTRLGHGNQSSSSLLSVRTSETVPDSAPENITYKNISSGEIEIS 781

Query: 2338 FLPPSSPNGIICKYTIYLKRSNGNEERTINTTSLTQNIKVLKKYTQYIIEVSASTLKGE 2517
FLPP SPNGII+KYTIYLKRSN +E RTINTTSLTQ I LKKYT Y+IEVSASTLKGE
Sbjct: 782 FLPPSPNGIICKYTIYLKRSNSHEARTINTTSLTQITIGGLKKYTHYVIEVSASTLKGE 841

Query: 2518 VRSAPISILTEEDAPDSPQDFSVKQLSGVTVKLSWQPPLEPNGIILYYTVYVWNRSSLK 2697
+RS PISILTEEDAPDSPQ+FSVKQLSGVTV LSWQPPLEPNGIILYYTVYVW++SSL+
Sbjct: 842 IRSRPISILTEEDAPDSPQNFVSVKQLSGVTVMSWQPPLEPNGIILYYTVYVWDKSSLR 901

FIGURE 2E

Query: 2698 TINVTETSLELSDLDYNVEYSAYVTASTRFGDGKTSNIISFQTPEGAPSDPPKDVYYAN 2877
IN TE SL LSDLDYNV+Y A VTASTRFGDG S+II+F+TPEG PSDPP DV+Y N

Sbjct: 902 AINATEASLVLSLDLDYNVDYGACVTASTRFGDGNARSSIINFRTPEGEPSDPPNDVHYVN 961

Query: 2878 LSSSSIILFWTPPSKPNGIIQYYSVYYRNTSGTFMQNFTLHELTNDFDNMTVSTIIDKLT 3057
LSSSSIILFWTPP KPNGIIQYYSVYY+NTSGTF+QNFTL ++T + DN+TVS I +L

Sbjct: 962 LSSSSIILFWTPPVKPNGIIQYYSVYYQNTSGTFVQNFTLLQVTKESDNVTVSARIYRLA 1021

Query: 3058 IFSYYTFWLTASTSVGNGNKSSDIIIEVYTDQDIPEGFVGNLTYESISSSTAINVSWVPPAQ 3237
IFSYYTFWLTASTSVGNGNKSSDII VYTDQDIPEG VGNLT+ESISSTAI+VSW PP+Q

Sbjct: 1022 IFSYYTFWLTASTSVGNGNKSSDIIHVYTDQDIPEGFVGNLTFESISSTAIHVSWEPSSQ 1081

Query: 3238 PNGLVFYYVSLILQQT-PRHVRPPLVTYERSIYFDNLEKYTDYILKITPSTEKGFSDTYT 3414
PNGLVFYY+SL LQQ+ PRH+ PPLVTYE SI FD+LEKYTDYI KITPSTEKGF+TYT

Sbjct: 1082 PNGLVFYYLSNLQQSPPRHMIPPLVTYENSIDFDDLEKYTDYIFKITPSTEKGFSETYT 1141

Query: 3415 AQLYIKTEEDVPETSPIINTFKNLSSTSVLLSWDPPVKPNGAIIISYDLTLQGPENYYSFI 3594
QL+IKTEEDVP+T PIINTFKNLSSTS+LLSWDPP+KPNGAI+ Y LTLQGP+ N++F+

Sbjct: 1142 TQLHIKTEEDVPDTPPIINTFKNLSSTSILLSWDPPKPNGAILGYHLTLQGPLHANTFV 1201

Query: 3595 TSDNYIILEELSPFTLYSFFAAARTKGLGPSSILFFYTDESPLAPPQNLTINCTSD 3774
TS N+I+LEELSPFTLYSFFAAART KGLGPSSILFFYTDES PLAPPQNLTIN TSDF

Sbjct: 1202 TSGNHIVLEELSPFTLYSFFAAARTMKGLGPSSILFFYTDESAPLAPPQNLTINLYTSDF 1261

Query: 3775 VWLKWSPSPLPGGIVKVYSFKIHEHETDTIYYKNISGFKTEAKLVGLEPVSTYSIRVSAF 3954
VWL WSPSPLPGGIVKVYSFKIHEHETDT++YKNISG +T+AKL GLEPVSTYS+ VSAF

Sbjct: 1262 VWLWSPSPLPGGIVKVYSFKIHEHETDTVFYKNISGLQTDKLEGLEPVSTYSVSVSAF 1321

Query: 3955 TKVGNNGQFSNVVKTQESVPDVVQNMQCMATSWQSVLVKWDPPKANGIITQYMTVE 4134
TKVGNNGQ+SNVV+FTTQESVP+ V+N++C+A WQSV V+WDPP+K NGII YM+TV

Sbjct: 1322 TKVGNNGQYSNVVEFTTQESVPEAVRNIIECVARDWQSVSVRWDPPRKTNGIIHYMITVG 1381

Query: 4135 RNSTKVSPQDHYTFIKLLANTSIVFKVRASTSAGEDESTCHVSTLPETVPSVPTNIAF 4314
NSTKVSP+D YTF KLL NTSYVF+VRASTSAGEG+ES C +STLPETVPS PTN+AF

Sbjct: 1382 GNSTKVSPRDPYTFYFKLLPNTSYVFEVRASTSAGEGNESRCDISTLPETVPSAPTNAVAF 1441

Query: 4315 SDVQSTSATLTWIRPDTILGYFQNYKITTLQRAQKCKEWESEECVEYQKIQYLYEAHLTE 4494
S+VQSTSATLTW +PDTI GYFQNYKITTLQRAQK+EWE EEC+E+QK QYLYEA+ TE

Sbjct: 1442 SNVQSTSATLTWTKPDTIFGYFQNYKITTLQRAQKCREWEPEECIEHQKDQYLYEANQTE 1501

Query: 4495 ETVYGLKKFRWYRFQVAASNAGYNASNWISTKTLPGPPDGPPENVHVATSPFISIS 4674
ETV+GLKKFRWYRFQVAASN GY NAS WIST+TLPGPPDGPPENVHVATSPF I+IS

Sbjct: 1502 ETVHGLKKFRWYRFQVAASNVGYSNASEWISTQTLPGPPDGPPENVHVATSPFGINIS 1561

Query: 4675 WSEPAVITGPTCYLIDVKSVDNDEFNISFIKSNEENKTIEIKDLEIFTRYSVVITAFGN 4854
WSEPAVITGPT YLIDVKSVD+D+FNISF+KSNEENKT EI +LE+PTRYSVVITAF GN

Sbjct: 1562 WSEPAVITGPTYLYLIDVKSVDNDEFNISFLKSNEENKTTEINNLEVFTRYSVVITAFVGN 1621

Query: 4855 ISAAAYVEGKSSAEMIVTTLESAPKDPNNMTFQKIPDEVTKFQLTFLPPSQPNGNIQVYQ 5034
+S AY +GKSSAE+I+TTLES PKDPNNMTFQKIPDEVTKFQLTFLPPSQPNGNI+VYQ

Sbjct: 1622 VSRAYTDGKSSAEVITTTLESVPKDPNNMTFQKIPDEVTKFQLTFLPPSQPNGNIRVYQ 1681

Query: 5035 ALVYREDDPTAVQIHNLISIIQKTNTFVIAMLEGLKGGHTYNISVYAVNSAGAGPKVPMRI 5214
ALVYREDDPTAVQIHNLISIIQKT+T +IAMLEGLKGGHTYNISVYA+NSAGAGPKV MRI

Sbjct: 1682 ALVYREDDPTAVQIHNLISIIQKTDTSIIAMLEGLKGGHTYNISVYAINSAGAGPKVPMRI 1741

Query: 5215 TMDIKAPARPKTKPTPIYDATGKLLVTSTTITIRMPICYSDDHGPIKNVQVLATETGAQ 5394
TMDIKAPARPK+KP PI DATGKLLVTSTTITIRMPICY+DDHGPI+NVQVL ETGAQ

Sbjct: 1742 TMDIKAPARPKSKPIPIRDATGKLLVTSTTITIRMPICYNDHGPIRNVQVLVAETGAQ 1801

Query: 5395 HDGNVTKWYDAYFNKARPYFTNEGFPNPPCTEGKTKFSGNEEIIYIGADNACMIPGNEK 5574
DGNVTKWYDAYFNKARPYFTNEGFPNPPC EGKTKFSGNEEIIY+IGADNACMIPGNE+K

Sbjct: 1802 QDGNVTKWYDAYFNKARPYFTNEGFPNPPCIEGKTKFSGNEEIIYVIGADNACMIPGNEEK 1861

Query: 5575 ICNGPLKPKKQYLFKFRATNMGQFTSDSDYSDPVKTLGEGLSERTVEIILSVTLCILSII 5754
ICNGPLKPKKQYLFKFRATN+MGQFTSD+YSDP+KTLGEGLSERTVEIILSVTLCILSII

Sbjct: 1862 ICNGPLKPKKQYLFKFRATNVMGQFTDSEYSDPIKTLGEGLSERTVEIILSVTLCILSII 1921

Query: 5755 LLGTAIFAFARIRQKQKEGGTYSQDAEIIDTKLKLQDLITVADLELKDERLTR----- 5916
LLGTAIFAF RIRQKQKEGGTYS+DAEIIDTK KLDQLITVADLELKDERLTR

Sbjct: 1922 LLGTAIFAFVRIIRQKQKEGGTYSRDAEIIDTKFKLDQLITVADLELKDERLTRLLSYRK 1981

FIGURE 2F

Query: 5917 ---PISKKSFLQHVEELCTNNNLKFQEEFSELPKFLQDLSSTDADLPWNRANKNRFNPKP 6087
PISKKSFLQHVEELCTN+NLKFQEEFSELPKFLQDLSSTDADLPWNRANKNRFNPKP
Sbjct: 1982 SIKPISKKSFLQHVEELCTNSNLKFQEEFSELPKFLQDLSSTDADLPWNRANKNRFNPKP 2041

Query: 6088 YNNNRVVKLIADASVPGSDYINASYISGYLCPNEFIATQGPLPGTVGDFWRMVWETRAKT 6267
Y NNNRVVKLIAD S+PGSDYINASY+SGYLCNEFIATQGPLPGTVGDFWRMVWETR KT
Sbjct: 2042 Y-NNNRVVKLIADVSLPGSDYINASYVSGYLCNEFIATQGPLPGTVGDFWRMVWETRKT 2100

Query: 6268 LVMLTQCFEKGRIRCHQYWPEDNKPVTVFGDIVITKLMEVDQIDWTIRDLKIERHGDCMT 6447
LVMLTQCFEKGRIRCHQYWPEDNKPVTVFGDIVITKLMEVD+QIDWTIRDLKIERHGDCMT
Sbjct: 2101 LVMLTQCFEKGRIRCHQYWPEDNKPVTVFGDIVITKLMEVDQIDWTIRDLKIERHGDCMT 2160

Query: 6448 VRQCNFTAWPEHGVPEPENSAPLIHFVKLVRAHDTTPMIVHCSAGVGRTGVFIALDHLT 6627
VRQCNFT WPEHGVPEP+ PLIHFKLVLR SRAHDTTPM+VHCSAGVGRTGVFIALDHLT
Sbjct: 2161 VRQCNFTGWPEHGVPEPENTTPLIHFKLVRTSRAHDTTPMVVHCSAGVGRTGVFIALDHLT 2220

Query: 6628 QHINDHDFVDIYGLVAELRSEKCMVQNLAQYIFLHQCILDLLSNKGSNPICFVNYSAL 6807
QHIN+HDFVDIYGLVAELRSEKCMVQNLAQYIFLHQCILDLLSNKG +QP+CFVNYS L
Sbjct: 2221 QHINNDFVDIYGLVAELRSEKCMVQNLAQYIFLHQCILDLLSNKGHPVCFVNYSAL 2280

Query: 6808 QKMSLDAMEGDVELEWEETM 6873
QKMSLDAMEGDVELEWEETM
Sbjct: 2281 QKMSLDAMEGDVELEWEETM 2302 (SEQ ID NO: 4)

Hammer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
PF00041	Fibronectin type III domain	595.2	3.9e-175	21
PF00102	Protein-tyrosine phosphatase	369.0	5.1e-107	1
CE00202	CE00202 EPHRIN_TYPE_A_RECEPTOR	31.5	3.5e-08	5
CE00527	E00527 CDC14 PHOSPHATASE	7.7	0.13	1
PF00541	Adenoviral fiber protein (knob domain).	2.7	1.4	1
PF00150	Cellulase (glycosyl hydrolase family 5)	2.2	9.8	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF00041	1/21	15	43 ..	54	84 .]	7.8	0.86
PF00041	2/21	56	143 ..	1	84 []	59.8	8.4e-16
CE00202	1/5	74	158 ..	462	544 ..	23.6	5.4e-06
PF00041	3/21	155	198 ..	1	44 [.	13.7	0.017
PF00541	1/1	227	235 ..	1	10 [.	2.7	1.4
PF00041	4/21	267	291 ..	57	84 .]	10.1	0.18
PF00041	5/21	305	386 ..	1	84 []	30.3	2.7e-07
CE00202	2/5	403	435 ..	450	483 ..	1.9	5.7
PF00041	6/21	397	440 ..	1	44 [.	28.1	1.2e-06
PF00041	7/21	530	558 ..	57	84 .]	7.8	0.86
PF00041	8/21	569	651 ..	1	84 []	53.4	5.9e-14
CE00202	3/5	682	703 ..	460	482 ..	4.3	1.2
PF00041	9/21	665	743 ..	1	81 [.	59.6	9.6e-16
PF00041	10/21	759	842 ..	1	84 []	42.3	9.4e-11
CE00202	4/5	871	888 ..	460	478 ..	1.6	6.5
PF00041	11/21	854	935 ..	1	84 []	54.2	3.5e-14
PF00041	12/21	948	1040 ..	1	84 []	34.5	1.7e-08
PF00041	13/21	1053	1134 ..	1	84 []	15.5	0.005
PF00041	14/21	1158	1231 ..	8	84 .]	44.7	2e-11
PF00041	15/21	1243	1328 ..	1	84 []	40.7	2.7e-10
CE00202	5/5	1400	1416 ..	511	527 ..	4.2	1.3
PF00041	16/21	1340	1418 ..	1	84 []	47.9	2.3e-12
PF00041	17/21	1430	1468 ..	1	39 [.	27.3	2e-06
PF00041	18/21	1500	1526 ..	59	84 .]	14.5	0.0099
PF00041	19/21	1538	1620 ..	1	84 []	36.1	5.7e-09
PF00041	20/21	1641	1734 ..	1	84 []	30.5	2.4e-07
PF00150	1/1	1786	1815 ..	307	340 ..	2.2	9.8
PF00041	21/21	1864	1889 ..	63	84 .]	1.1	74
CE00527	1/1	2190	2204 ..	313	327 ..	7.7	0.13
PF00102	1/1	2018	2250 ..	1	264 []	369.0	5.1e-107

FIGURE 2G

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1 CATTATCTAT GGAACATAAT CTGAGGCTTT TTTTTCACAG TTGGTAGATA
51 CTTATGTACA AGATTTTGCT GTGAAAATCA GGGCAAGAAG GTAGTGATGC
101 AAGGTAGCAG ATAACATTGA AATACATTTT TGAAAATAAT TTTTAAATTT
151 GATGTAATGC AATTAGATTA CTTGAGCTAA TAGCATAGCT TTAGTTTATT
201 TTATTTATTT TATTTTATTT ATTTTGTGGA GACACAGTCT TGCTCTGTG
251 CCCAGGCTGG AGTGCAGTTG CCGATATTGG CTCACTTCAG CCTCCGCCTC
301 CTGAGCTCAA GCAATCTCTG TGCCTCAGCC TCCTGAAAGC TGGGACCACA
351 GGTCTGCCCA CCACGCAGGG CTAATTTTTT TATTTTAGT GGAGACAGGG
401 TTTTGCCATG TTGCCCAGGC TGACCTTAAA CTCCTGGTCT CAAGTGATCC
451 AACCGCCTTG GTCTCCGAA GTGCCGCAT TACAGGTGTG AGCCACCACA
501 CTCGTCTTAA TTGCATAGTT TTAGAGATCC ATGTTGGATT AGCTCTTCTG
551 TAGTGTCTTG ATGACCTGTG ACCAATGATA AGAGTATGGA ATTAGGTAGT
601 TTCTATGAAA AGGCATCTTT TCTGGCGACT AATAGCCACA GTATCAAGAG
651 TTTTAAAGC CCCTCTCCTC TGGTCTCAAT GGAGTCAAAG AAAACTCTCC
701 CGACTGCTCC TGAAAAAGGA TGTCAAATGA AACTGTTTCA AATTGCTGAA
751 TAGCCTGGCT AATCCTGCCT GTCTCCAATC ACATACTCCG AATCCATATT
801 TTTCTCACTG TGGTAAGCTT TCCAATATT TTTAGAAAA CAAAATTAT
851 ATTTGGAATA ACTTGGTCT TCTGTGGCAG TAAAACCATG ACTGAAATGT
901 ATCTCTGTGG AAACCCTTAC TTCATTTAAA ATTTATTATT CCTCCTAATG
951 ATTCAAGGCT TCAAATATTT CAATGGTAAA GAAAGAGCTT TTTCTATTCA
1001 GAGGGAATAT TCATTTACTT CTTCACTGCT TTGTGTGTCT AAAGTAGAAA
1051 AATATGAGAT TACATGAGAC ATATACTTTT TCAGTGTTAC TGATCATATT
1101 CCCTTATCTA AATTCTTTAA TAACTAATTT TATTATTCCT AAAATATAAA
1151 TAAAAATAAA TGCACATTTT TCAGCATCAC TATACACATG TTCATTTTTT
1201 GGTTTTAGAT ATTAATCTAT ACCCAGTTCA AACTGTGGAA ACTGAACTAA
1251 CATGACTGAA TAAAAATAGT GTTATATTTT GTTCTTTAGA CTCTTTTTTC
1301 CCTTCCTGAG ATTTTGATAT GTATTTGGAG AGTTTGTAGT CAATATTTAT
1351 TTGATTGTGT TTCTTTCTG GAGTGATATT GTAAATACTT TAAAGATTTT
1401 GATTGAGTGA GAGGTGTGAG CTATATTTTC TTCTTCTCTG TATGATATAC
1451 ATACATGTGT TCCAATCTAA TTTCTATTAA ATAACTATAG GAGAGCCAC
1501 AGCCTTGTTA TTTTACATAT CACTATTTAG ATATTTGTTA TTTATTTATT
1551 TGTGTTGGCC TGAAGTAAAT GTTACTTTTG TACGATATTT GAAGGATAGA
1601 TTTATTTTAT AAATTAATAG TTTAAATAAG ATTTTGCCAG CATTTGAAAT
1651 GAACAAATGT TTGGACAATG AAAACATCAG TATGAAAGGG AATACTGTAA
1701 TTAATTTAGT ACATAGTATT CCTTAATATC CATTAATAAT GGTCCAAGCA
1751 AACTCTAATT ATGAACATCA TATTAACATT TGATCTAATT ACTGAATATA
1801 ATTAAGAGCA AAATAAGTTA ATTTACTAAA GAATCTGAA ATTTACTATT
1851 TTCAGTATTT TCGAATAACC AACATCTTTT TTCTATTAAT CTAGAATAAA
1901 TTTCCATATA TTAATGTTGT TTAATTTTAA TGTTAGTGTG CTCAAAAAGT
1951 ATGTTTAACT TTTAAATTC AATTCTACAG ATAATATTCT TTTTATCTCA
2001 GGAATAGATC ATCATTAAAA ACTATTAATG TCACTGAAAC ATCATTGGAG
2051 TTATGAGATT TGGATTATAA TGTTGAATAC AGTGCTTATG TAACAGCTAG
2101 CACCAGATTT GGTGATGGGA AAACAAGAAG CAATATCATT AGCTTTCAA
2151 CACCAGAGGG AGGTGAGTTA AGGATGTATG CCAATTAAAA GAATGTTCTT
2201 TTTCTTTAAA AAAAAATCC TGCCAGAAA AATATTCAAA TATCAAAATG
2251 TATGATGAAG ATGAATATT ATCATCAGTT TGATGAAAAA TTGCATTTTG
2301 ATCACTTTTT AGCTGTGTGA TGTTGGGAAA ATTAATCTCT GTGTGCCTCA
2351 ATTTCCCAT TTTGTAATGTG AAACAGTATC ATTCTACTTC ACAGGGTTCT
2401 TATGAAGATT ACATAAGTTT ATATTTTAA AAGCACTTAG TACAGAAGTT
2451 ACTTGGACAA ATGAATTTT ATGTGTTTAT TAAACGAAAC AACATAAAAT
2501 GCATGAATCA TTTGTCTATG ACTTTTATTA TTCAATATAA AAATTCTAAG
2551 TTATATTAGA ATTTCAAATT ATGTATTTTG TATTGGAAAC CTGTTATAAT
2601 ATGTTCTCA TATCCAGAGC AGTGGACAGG TTTTGAACG GAGATAGTAT
2651 TTTATGGGTA AGAAATCTAT CTGTCTTCAG CTTGAATATG CCTATAATAA
2701 AGTATTAGAG GGGTGACCCA ATGTGTTTTA TGGATTTTCT TTCTGACATT
2751 TCTAATTCAA GCTTTTTTGA AAAACATTTT TTATCACTTT AATTATATAA
2801 CTGTAGGTAA AATTCAGGCC ATTTCAGACA TTACTTGTA ACACAAATAC
2851 AGTAATTGT TCAATTTTGT GTTTTATAGC ACCAAGCGAT CCTCCCAAAG
2901 ATGTTTATTA TGCAAACCTC AGTTCCTCAT CAATAATTCT TTTCTGGACA
2951 CCTCCTTCAA AACCTAATGG GATTATACAA TATTACTCTG TTTATTACAG
3001 AAATACTTCA GGTACTTTTA TGCAGGTAAG AACTGAATTT TCTTCTAGTT
3051 CTTTATTAAC ATCTTTAAGT TTTATTAATA ATACAGACTT GTCACAGTAA
3101 AAGAAATTGT TTACCTTACA TTGATAATTA GGCACAGATG TATTTTATAA
3151 AACTCCCAT TACATAGAAA AATGCGGTGT AGAAATGTCA GATACATTTA
3201 ATCTCTCTTT ACAGACACAC ACACACACAC ATACAACCTT TATATAAGCT
3251 TCACATGTAT TAAAAATAGT GAATCTGCCA CCTACTGAAA ATTTCTGTTT
3301 TAAAGATGGC CCTCAATTAC ACTTCTCTCA ATAAGTGTTT TCTAAAGTGC
3351 TGATGGTATC ATTTATCCTC AAAGTTATTT ATTAGCTAAA TTTTCTTTTCA
3401 TTTGTTTGTA TATGATATAA ATAGTTCTAG TGTTTGGATG TGTGTTGTTT
3451 TCTTTAATTA AAAAAAGTTT TTGATAGCAG GAAGGTTTAT TATAATAATA

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FIGURE 3A

3501 GTATATTAGT AGTTAATGTT TAATGTCAGA TGAAATGAAG ACCACTCGGA
3551 ATGTGTTTAA TTAATTTGTC ATAGATAAGA TTCTAGGCTT GCACAGTTTG
3601 TAGATGGGCA CTCTCTAGGA TGTGAATGAT GATGGCTATG AAAATAGCTA
3651 ACATGCATTT ACTTTGAAAA AATATTTTCA ATTTTCAACA GAATTATATT
3701 ATTTCTTCAA ATTAGATGTT TCACAGAACT CTAACATATA AAAAGGATAA
3751 TTGGAATGAT TATGATTGAA TCAAAGATGC AGAGAGCTGG AATATAATTA
3801 GAAAAACACG GCCGGGCGTG GTGGCTCACG CCTGTAATCC CAGCACTTG
3851 GGAGGCCGAG GCGGGCGGAT CACAAGGTCA GGAGATCGAG ATCATCCTGG
3901 CTAACACGGT GAAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG
3951 CGTCGTGGCA GGCGCCTGTA GTCCCAGCTA CTGGGGAGGC TGAGGCAGGA
4001 GAATGGCGTC AACCCGGGAG GCGGAGCTTG CAGTGAGCTG AGATCCCGCC
4051 ACTGCACTCC AGCCTGGGCG AGAGAGCGAG ACTCCATCTC AAAAGAAAAA
4101 GAAAAACACG AATTTAGAAG AAATGCTGCA ATGTACAGAA TACATCCCTT
4151 AGTGGTAGAA ATTATTGACC ACATGTTTGT GTCTTAGGTG ATTCTTAATT
4201 ATTTCTATCC TTTTAAGTAA AAGAAGAAGA AAGATAAGTC TTACAAATTC
4251 TGAGTTACCT ATCCCATTT GTGACTGACA GCCCAAGTTT AGTCACTAGT
4301 TAGCTCTACT GAGTAACAGC CTCTGTAATT AAGACTTTAG TGCAGCTATA
4351 GTGCAATGTA GGCTAATGAA GAGGGCAAGA GCAGAACTTG CAAGCTATCT
4401 CAGGACTAAC CTAGCAGGGA GAAAGACAAA GTCCAGAAGG TGGTTTAGTG
4451 TTTATATTCT GTTCTATAAG AGTAGGGTTG TATAAGTCTG TCTATTTAAA
4501 ACTTGATGCA AAGAGAAAAC TACTTTATAA AAGACATGTA GATATAATTA
4551 TAGCTGTAAT GAAAGACATG TAGATATAGT TACAGATGTA ATCGTAAATC
4601 AACATTTTTG AACAAATGCC TTAAGAGCAG AAGGAGAAAG GAAGTCTAG
4651 TTTTCTACTC TCTATGTCAC GCAGTTTTTG CTTTTTGTGT TGTCTCTGT
4701 AGGGAAGAGA AATGGGGCCT AGAGAGGCAA TTTATTTTTT AACCAAAATG
4751 TTGTTTACAA TTGTAACAAT ATGTCATTAT ACCCATAGAA GATATGCAAA
4801 TTGGAGATTT TCCTTCTTTT ATGCATTTAA AAAACATTGC ACAATTGTTT
4851 CAGTAGTTCT AAATTTTAGC AATCATTTTG TCTCTGTACA ATTTACTTAT
4901 GGCTTCTATG TGATTTATAT TTTGGTTCTC TTTATCCATA TCTAAATAAT
4951 ATAGCATAAG TATCAAACTA TGGTTCCAAC GTGATCTTCT AAACCTACTT
5001 ATTACACCTT GGGTGTGTAA TATGATCTAA TTTGCAATTC ATCTGCCTTA
5051 GAACATGTTA TCTTTTATTA AATAATCTTA AGAATGCTTT TAAGTGTGAC
5101 AGCTGCAAGA GGGCACAGGC TAATGATGTT AAAATATTTT AGAAGTATAG
5151 TCTCATATTG CTTGAAGTTT ATCCGTGCTT TAACTTATTC CTAAAGTTAA
5201 TGTTAATAAT AGCATCAATA CCTTCACTAC CTAATTTTCT ATTTTGAATT
5251 AGTGAAGAA AGCCTCAAAA TGAAATTTAT GTAGCAGAAT AAGTGTATAC
5301 CTTTTTATTT GTTCCCTTATC ATCTTTCCCC TTCCTACAGA ACTTTGTAGA
5351 ATATGTCATG CGTGGCATAT CATGTTCTGC CTCCTATTAC CGATACTGT
5401 TGCTTCTCTT AGTTCCTTAA TGCCATGACA AGCATCTTGT AGAAAAAGAA
5451 TTGTGTAATA TTTATTTTTT CATCTCCAAA AGTCTTCTGC AACTATGTCA
5501 GACATAGGTT TAATGCTCAA TACATATTTT AATTGAAAGA TTTAAAAAAT
5551 ATTATAGTAG ACCAACATCA CTTTATAGTAC ATAGTCATAA TTTTGGAGCC
5601 CTTGAGTATG TAGCAAAAGCC ATCTTTCCCTT TTTCTTATCT TGGAGAATTT
5651 AACCTCTTTG CTACTACTTG GCAATCCATA TTGTTCTTCC TTCAGTTGTT
5701 GCACATTGTA TTTTGTACAG CATATTAACT TTTCTACTTT TTAAGTTTTA
5751 CCCACTTATG TTTCTTAGT GTGCCTGGCA TAATGTCTTC TATTTTAAAA
5801 AGTGTTAAAT GGGCCGGGTG TGGTGGCTCA CGCCTGTAAT CCCAGCACTT
5851 TGGGAGGCTG AAGCAGGTGG ATCACGAGGT CAGGAGATCG AGACCATCCT
5901 GGCTAACAAAG GTGAAACCCCT GTCTCTACTA AAAATACAAA AAATTAGCCG
5951 GGCATGGTGG CAGGCTCCTG TAGTCCCAGG TACTCAGGAG GCTGAGGCAG
6001 GAGAATGGTG TGAACCTGGG AGGTGGAGGT TGCAGTGAGC CGAGATCGTG
6051 CCACTGCCCT CTAGCCTGGG CAACAGAGTG AGACTCTGTT TTAAGAAAAA
6101 AAAAAGTGTT AAATGAATAT TAGTTGGTTG GTCAAATTTG AAAAAGTTTT
6151 ACTAAATACC TTCTGACTAT ATTTATATAA ACAAAGAAT AAGCCTTACT
6201 TAGATAATTT GTGCCAAAAG ACATTTTGTG TTTGCAAAAA TAAACAGCTG
6251 AATAAAATAA TCATCTGGAT AATTGATTTA ATGTTACAAA TTTGTTACAT
6301 GCCTATGCAC ATTAAGTCAC ACAGTCAGCA GGAATGACTT CTGGGTGATT
6351 CAGATAATTT GTTATGTATT AGCCATCAAG GTCATAGGTA ATCAGAATAA
6401 ATTCTATAAC AAAAATTAAA ATTTACATCA AAAAGCTATG TTAATACTTT
6451 TAAGTGGTGC TTTATATAAG CCAGTTGTTT CATGTGTAAA GTAGATGTAT
6501 TGAAGGTAT TAAAGTTCAT GGATCATATT TTGTGTGAGA TTGCTATATT
6551 ACTTTAACTT GTCTATTTCT ATGTAAATCA CCACAAAATT GTAGTAAATC
6601 TTTTATTGCA CTATATTTTT CCCTGAATAC TGGCAAAAGA ACCATAAAAT
6651 TTTGCTAATT TAATTTGTTG ATAAATTTCA GAACCATCTT TACTATAAAT
6701 TTGGTAAATT TGCTTATCCT ATGTTATTCA TTTAAATGAA ACTAATTACT
6751 GTTTTTTTT AATTGTGTGC TAGACATGGT ATTAATGGCT TTTTGTGCTT
6801 CATGTCATCT AATCCTCACA AGTTGTCTGT GAAGTGGAGA TGATTATTTT
6851 CATTTTACAG TTGAAGGAAG AAAAGCTTTG AGATTAAATG ATTTATCCAG
6901 GATACCCTGA CAGAATTTGA ATGCAGGTCT ATAGGACTTA AATGGCTTCA
6951 TGTGGATTGG AATGATTCAG GTTACTCTGC AGATGGAAAT TATAAATTA
7001 TTCATACTGA TTAGCTATGT GTTTAAGTCT CCTTTTATTT TAGAATTAAT

FIGURE 3B

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7051 TTTATTGGC TATATGTTTT ATTTTAAAA TTTGATAGGA AAGAAAATGA
7101 TTACATACAT ACCCTAATAC TTTTTTTTAA GCCTTGGGGA AAAATGCAAC
7151 TGGGAGTCAG TCAAGAGAAT TTAAAACTTT CTCTTACTCT ACACATCAGA
7201 GAGTACATCA GTCTGCTATC CCTTTGCTAC AACTGTGAGA AGTAAAGTCT
7251 GAAAAAGAAAT GTGAAAGTCT GAAAGCCAC TAAATGTGAA TAATAATAGC
7301 GATTTGAGTT CATAGAAACA GGCAAAACACA TTCGAAATTC CTTCATCACA
7351 AATGGAAAGA AACACAATTA AAAGTTTTCT AATACTCCCA AACTTGTTTA
7401 AAATTAGCTG ATGCTTTGAA AATTACTTGA ATGTTTTTAT AAGGAAAGTG
7451 ATGCTGATCA GCACAGTTGT AGCATTTCCA TTTGGCCACT TGACATTCTT
7501 CATTGTTGGC TTGGAGTTTT TATTCTTTGC TATTTTTTTG TATTGGCTTT
7551 GCAATAAAAA CCACCATCTA TTTCTCTTTT AGTACAAACA TATTTCCAGT
7601 TTAATTGTTG CAATAAAAAA TGTCTATGT CGATTTTCCT AAAACAACAT
7651 ATTAATAATA TGATAAATAA TAAATCGAT CCATTGATAA CAATTAGTTT
7701 GAAGTGTTCA TGCATACTAA AAAAATACAT TCTGAACAA GAATGTGTTT
7751 ATTTTTTACA GATTTTACCT CCATGAAGTA ACCAATGACT TTGACAATAT
7801 GACTGTATCC ACAATTATAG ATAAACTGAC AATATTCAGC TACTATACAT
7851 TTTGGTTAAC AGCAAGTACT TCAGTTGGAA ATGGGAATAA AAGCAGTGAC
7901 ATCATTGAAG TATACACAGA TCAAGACAGT ATGTAAACAA AAAACACTAA
7951 TCTTTAATCA GATTGAATTA AAACTTATTA TTTTAGGAAA TTTTACTATT
8001 TGTTTGAATT TGTAATAACA TCTTTTATTT AGACACGTTT ATTATAGGAG
8051 TTTGAAAATG CAATTAAATAT ACTTACAAAA CTATTGCAGT AATAGCCTCT
8101 TCTGTTCAAG AAAACTGCTA ACATCCATTC ATGAAAATTC TGTTCTTTTT
8151 ATTGCTTCAA AAGATGTCGT GGCCATCCAG TTATGGGCAC AAAAAGTACT
8201 GCATACATGG ATGAATTTTC CAGTAGTTAA TTTATTTATT CATTTTCCTT
8251 AAGGACTTAA AAAATCTCTA GCAACTTGTT TTCTTTTCAG ACTTTGAATC
8301 TACACAGGAC TCTGCAGCAC ATCTCTTCTC ACTGTGTTTG TGACTAATAT
8351 ATCCAGAGTA TTTTCTTAA CTCCAGAAGT TTCTCGTATG CATCTTCTGA
8401 AGAATCCTAT TTATCCCAG TATTCAGAAA ACTATAATGA TTGAAGATCT
8451 TGATGTTTTT TATGTTTCAA TTTTCAGAA ACAGTGATAA GTGGATCATT
8501 GCCTATTTTT CTGTAGTTG TTTCTGTCAT CCATTTGCTT ATTTTCAAAG
8551 ATTAATCCCT TATTGAGAAG TGGCAGTGAC CTAAACTTCT GGAGTAAAC
8601 TCCATGTTTA TTATCTGAAA GCCATAAATT GACAGATTCC TTAAGCATGA
8651 GAAGTGAATG CTTGATTTGT TGTTGGAACA GTCTTTTGAA TTGTTGACAA
8701 GTTGGTCAAC ATAAAAATAA ATGATAAATG TGGGGAAATA TGTATTTGGG
8751 GAGTCTTTAG CAAAAATGTT ATATTGTAAT ATATGATCAA TACCATTCA
8801 GGTATTTCTT AAATGCAGAT CTCTCCCAGG ATTTTGGCCA ACCTATGACA
8851 TTTTATCACT TATAATTTCC ACACCATGGA TAATAAGCAC TTACTATGCA
8901 CTACTCCAGG TGGATGTCAA ATTTACGTTA ATAGAGTTTA ATATCACAAT
8951 ACAACTTATA TTTGAGAATT GGAACCTGTG TGTAAGTAGA GTAACCTTGT
9001 AATGTACAAA TGTGAGTTGG TAGTCTGGTG ACTGGAGAGA TTTTGAGACT
9051 AGATCTTGGG AAAGCTTTTA GTATTGATTC TTCTGGCTAC CCACATGACC
9101 TTGGAGAAGT AACTTAATGG CTGAGCTTTA GTTTCCTCAT ATGTACAACA
9151 AGGTAAATAT TTAGAAGAAA TAAGCTAAAA AGATGTTTAA AATAACATAA
9201 ATTATCAAAA TATTTAAATA AGGCAGTATA CATACACATA TTATGCACAC
9251 ACACGCACAC ACACACAATC TCCACATAGT AGGAAAGAAG AGTCAAGAGA
9301 ATATTATAGA AACAATTTCC ATACATATTA AAGATGACAG AGTTTATTTT
9351 GAATGATTTT TAAAAAATTT ATTTAGAAGA TATTTTATAA TAGGTGAATG
9401 TTTGCCACAT CTGCATTTAA ATAATTTAAG AGCTGATGAT GTAATAGTTG
9451 CCATTTCAAC AATTATACTC AGTTTGTGAA TTTAGATTCT GTTTAGGGTA
9501 ACTGTTGATT TTTGTATTTT GCCCATTACC TATCATAGTA CCTGAAGGGT
9551 TTGTTGGAAA CCTGACTTAC GAATCCATTT CGTCAACTGC AATAAATGTA
9601 AGCTGGGTCC CACCGGCTCA ACCAAACGGT CTAGTCTTCT ACTATGTTTC
9651 ACTGATCTTA CAGCAGACTC CTCGCCATGT GAGACCACCT CTGTGTACAT
9701 ATGAGAGAAG CATATATTTT GATAATCTGG AAAAATACAC TGATTATATA
9751 TTAATAATTA TCCCATCAAC AGAAAAGGGA TTCTCTGATA CCTATACTGC
9801 CCAGCTATAC ATCAAGACTG AAGAAGATGG TAGGCTAGAC CCTTTTATTG
9851 TCTGTTAAGC AGATTGTTGT TCTTTTCATT TACATTGCTT TCTGATAGGA
9901 AATAGTCTTC AATTATATTG ATTCTGTTTG ATCTCAAGTA ATTAGCCTTT
9951 CAATAAACAC AGTGTTTCTT AAAATAATCT GCTAAGAAAA TCAAATCCCA
10001 TTATGATTGA ATCCTCTTTT TTTAATGCTG ATTCACTTTT GTTTCATTTA
10051 ATATTCTCTT TTTCTTTTAT AGTCCCAGAA ACTTCACCAA TAATCAACAC
10101 TTTTAAAAAC CTTTCTCTA CCTCAGTTCT CTTATCATGG GATCCCCCAG
10151 TAAAGCCAAA TGGTGCAATA ATAAGTTATG ATTTAACTTT ACAAGGACCA
10201 AATGAAAATT ATTCTTTTCT TACTTCTGAT AATTACATAA TATTGGAAGA
10251 GCTTTCACCA TTACATTAT ATAGCTTTTT TGCTGCCGCA AGAACTAGAA
10301 AAGGACTTGG TCCTTCCAGT ATTCTTTTCT TTTACACAGA TGAGTCAGGT
10351 AAGCCAGAAAT CCACATTCT TCAACAATTT TCACTGTTGC AGCCCTGCT
10401 CTCTCTTTTT AAGGAACAGC ATGGAATATG AAAGGATATC TGATTGTCTA
10451 TTTGTAACAG CCTTACCATT ATATTACTT TGTTGATTTT TTTTGTGCAA
10501 TTTGAGCTTC AGAATTTCTT GTTCTGTTTA AAGCTACTTT GGACTACTC
10551 TGTCCAAATA CAAATTATAA TTAATTATGA TATTGTTTC TGAAATTTAA

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FIGURE 3C

10601 ATATGATCAT TTTATAAATC TTTTAAACT AGTGTCTTCA AGAAAGTAAG
10651 TCACGGTGCT ATTTTATGT TAAAAGTTT ATGAATGTAA GTTCTTCAT
10701 GTGTTTTCCT ACAGTGCCGT TAGCACCTCC ACAAATTG ACTTTAATCA
10751 ACTGTACTTC AGACTTTGTA TGGCTGAAAT GGAGCCCAAG TCCTCTTCCA
10801 GGTGGTATTG TTAAAGTATA TAGTTTAAAT ATTCATGAAC ATGAAACTGA
10851 CACTATATAT TATAAGGTAG GTTGATTATA ACAGTATATG TTTATTTTAA
10901 AAAATCAGAA ATTGAATTAA AATCTTTTGA CATATAGGAG GAAAATGGAC
10951 TACTAAATTA AACAATGACT ATTTTAACT ACTTCTTTAT TTCCTACAAT
11001 TTAAGGATGC TTATGAAAAA CACAAGCAAG CGTTTGACAG GTATATAAGC
11051 TGAATACTTC ATAGAGCAAT GTACTTAGAT TTGTAACCTC CAGATATCTA
11101 CAATTTAAGA AACAGTTGCA TCATTTTGTT AATGCTGGAA AGTGTATAGT
11151 ACTTTTTTTC TGACTTACAA ATATAAAATG TATTTCTATC TATTGTAAAC
11201 AGCAGACCA AGGGAATCTT TTTAACCTTT TAGAAAGGTA TTCATCTTTA
11251 TTCTGGACTT CTGGTCATCT TTCCAGATAG CATATGATCC TACACTAATT
11301 GGTCTTTTAC GATATATCCT TATTTTCTT TTTATTTTCA AGAGTAATTC
11351 ATTTGCAACA CTAACCACAT TTTCCCTCCT CCATTTTGG AATTGAGAAT
11401 TAGTGAAAAA TATCCACAGA ACTGATGCAA CAAAGAGTCT CAAATATATG
11451 TCTGTGATTT CTAGCATTTA ATTGCCAAAA TGTAATTAAC AAGCATTTAT
11501 TTAAGAAAAA GTTCTTATTT TTTTCCCAA AGGCAAATGA AGTCTGGAA
11551 TGTTCTTATT TAGTTTACAG CAAGAAGAGT GCAAAAAATC TGCAGTAAAT
11601 ATTTTACTCA ATATTATGAG TATTACAATT TATGACTATG GTAAATCATT
11651 GTTATAGCAT ATGTAGTTTA CAAATTGAAT AGTAAAAGTC AAAAGCAGGC
11701 ATTAACTTAT TGTACATCGG AACAAATGACT TTCTTTCTGG AAACCAAGAT
11751 ATTACTTTAA AACTTGATAG TCTGAGTATA ATTTGAATCC TATTACTCCA
11801 TAAATGTGAA ATTTGTTTCC CAGAGGTGTG AAATAACATT AAATGACATG
11851 AAGCCTCTTG CCCTTAAATA TCTATCCCTG GTTTAATCTT AACATTATTC
11901 CATTTTATTT TTTCTTTGTC TGTATGGGTC ACTGGGAGAT AGATATCAAA
11951 AGGAAAAAAG AATCATTTTC TCAGAGTAAT CGCATTCCTA GGATAATTGT
12001 GTACGTGTGT TAGAGTGTGG TTGTCTATAT ATGGATCTTG TCTCCTCAGA
12051 ATGGTGATCT GTAACATAGG CTCTCTTAGC ATAGCGGTGA AGCAAGGGCT
12101 CTGACTCCAA ATTACCTGGC TCAGATTCTG CCTTTGAGAC TTACTGTGCT
12151 TCAGTAGGGA CATTGCTTAC CTCTTAATGC AAAATGGGAG TTACAAAGAT
12201 GTGTACATTC GAAATTGAGG ATTAATAAGG AAAGTCTCCA TAGAGCATTT
12251 TGAACAATTC CAAGCATGTG ATAAATATGT TAGCTATTGT TGCTGTAATT
12301 GTACACAGTT TTTAAAAGAA CAAAAAACT GTCCAACATT GTAATAGCAC
12351 TAAGCATGAA ATGACAATAT GCCATTATGT GAACATGAGA ATAACCTGTA
12401 TTCTAAGATT TGTAACACAG TTTTCTCAAT AGAAGCACAT CTTTAATATT
12451 TCAGAAGTAG CAAAAATACC ATCTTTATAC CATTAAGTAT TCAATACATC
12501 ATTTGGGATG GTCAGTAGTT TTGTGTTTTA AAATCTACTG CGTCATGTTA
12551 CTCCTTTTTA CATCTATTTT CTCTTTCATC AATTTTCATA ATCTTATTTG
12601 CTTTCAAATT CCTTTAAATG TACTCTCATG CCATCTTTT CCCTGTCTTG
12651 GCATCTAGTT ACTATATCTG CTTCCTTTT TCTATTTGCG TTTCTCTCCT
12701 AGTGTGTTCT ATTTTCTTT CTCTTTCATC TACCCTGATA TCCTGACAGT
12751 ATCAATTTAT ATTATTTTCT CTGTTTTTCT ATTCTTTTTT TTTCTTTAAA
12801 TTATGTGTGC ATTTGTGGAG GTAGAATAAT GCTTGAACCA CTTCAAATGT
12851 TACTGCTATC CCAGTCAATC CACTGTGGTC CACAGATAAT AAAATCAATA
12901 GGTGACTTAG GTCACTACA CATACTGAAA GAAATTAATT ATTTAGTACA
12951 AAGTTCTATT AAAATATGTT TGTAAGTATT CATCACTCAT GTTTCTCTTT
13001 TTGACAAATC ATCTTGTGT AAATCTGTTC ACTATCCCAT AAATATTCTT
13051 CTTATTATTA TGCCCTCTTG GGTTCAGTTG TTTCTCTGGT TTTTAGCCCT
13101 TCCTAACCAG AATCATAATT TGCTTGTTTT GTGTTTAATT TTTTCTCAT
13151 CAGAAATTGT AGATTTCTCT AGTTAATATA AAAATTCCTT GATGGCAGGG
13201 ACCATGCCTT ACATGTGTCT ATAATCTCCA GATTATCTAA TGGCATGTTT
13251 TGTAAATAGT AAGCAGGAAA GAATGACTGA AATAAAGAGA TTCAGTAAGC
13301 CCCTAAATTC AGTGAATTC TAGAGATTAT TTTAAATAG GATTCTAATT
13351 GTAAATTCCC CAAGAATTAA TATTCTTGTT AAAATTCTG TTAAGTGAT
13401 GTTTGATAAA TGATCAACAT GGTTTATATT TTGTCAGATA TAATGTAAGA
13451 TTCCTACATT TATATCACAT AGGAGATTAT CTTCTCTTTC CATGAGGATA
13501 GCTGATTAACT CTTAGCTGCT TTCTTGTTA GGACAATTAT CTTTGAATGA
13551 AAATTTGTA CTTAATGATA ATTTTCTTCT ATGAGAAAGC ATATTCCTCC
13601 TTGGGCAACT ATGATACTCT TTGTTCCTT TTCTCATATC TCTAAAAACA
13651 GTGTCAAAT AGAAATAGAG GAATCGGCTG GGAAACTCC CAATTTAAGC
13701 TTCAATGGAAG CAGATATTT AAAATTATTA TTTTAAATA ATAATAATT
13751 ATTATTATTA TATATAATAA TGTTATTATT ATTTATTACT GTTTTGCCAG
13801 TGTCTACATA CAGTAGCTGA AGAATAAATA AATTTACACA GGAATGCTGT
13851 GGGTATTAAA AATGAATTTA GATAAGTTCA GAAACTCAA GTATCTCTGA
13901 CCAATGCACAA GTTGGATTAA AATGTCAGAC TGTAATTATG CAAATTAATA
13951 AAAATGAGTA TATAATTCCA AGTGAAATC ATGAAATAA AACACTCTAG
14001 TTTTAAAAA AGGCAATTAT ACGCCAGGTG CAGTGGCTCA CGCCTGTAAT
14051 CCCAGCACTT TGGGAGGCCG AGGTGGGCAG ATCACCTCAG GTCAGGAGTT
14101 CAAGACCAGC CTGGCCAAACA TGGCTAACT CTGTCTCTAC TAAAACTAC

FIGURE 3D

14151 AAATATTAGC TGGGTGTGGT GGCACATGCC TGTAATCCCA GCTACTTGGG
14201 AGGCTGAGGC AGGGAGAATG GCTTGAACCT GGGAGTCCAC CTCCCCTGC
14251 ACTCCAACCT GGGCAACAAA ATGAGACTCT GTCAAGAAAA AAAAAAAGTC
14301 TAAAAAAGGC AATTATGAGG TTCTTCAGGG AAAAGAAGGT GCCCAATTCA
14351 TCCTTGTATC ATAAACTGAG CACACTCTAT GGCACAAAAT AAATGCTAAT
14401 ATTTGTTTTA TTATAATTTA AAATATCCAT GCTTATTAAA CTATAGGTTA
14451 AATATAAAAG GAATAACTTC AATGAAAATA TTCCATTGAT GAACAATTTT
14501 TTGACAGTGC ATTAACATAAT AACTTTTTTT CTGTTTTTCA GAATATATCA
14551 GGATTTAAAA CTGAAGCCAA ACTTGTGGA CTGGAACCAG TCAGCACCTA
14601 CTCTATCCGT GTATCTGCGT TCACCAAAGT TGGAAATGGC AATCAATTTA
14651 GTAATGTAGT AAAATTCACA ACCCAAGAAT CAGGTTAGAT ACAGTTTTTG
14701 AGCCTAAAAT GTTCTTTTTT ATATTAAACA CCTTCTTTT CCTTTTCTTA
14751 GTTTATATGA TAAAGTATCA TTACTTAAGA GTCTACTCAA AGGGAAATTG
14801 CATTTCACTG CTTTACGTTT AGTCTTGGTC TTGTGTGAAA TCATATGCTG
14851 TATGTGTGTT TATACATATA TTTTCACACA TGGTTTTTCC TTTTGAACAG
14901 AGGAAGTTGA AATAAATAG TAGTTTGGGA ACAAATAGC CTCTAGATA
14951 TCTGTGAAAA TTACCTAATT CTTAGAACTC TTTGAGACAG CTGGGAAAAA
15001 AGGGGGAAAT GAACTAGCAG TCACCTTTAA CGGGCTGATT TATATTTTTA
15051 ATGAAACAAT ATCTATAATT TTCTTTTAAG AAGATTAGTT GTGACATTG
15101 GAGAGCATGA GTTCATTGCAT AAGCCCCCTA TGTTCCTATC ATCCCCTCTT
15151 TACCATGTGG CGGACACTGA AATATCATTG GTCTAATTCA TCAACAGCTT
15201 ACCTGCTGTG TCACACATGT AGTATACATG ACATATCTTG CCTTGTGTG
15251 CACACTGAAT AGTTTTTATT TAGGACCTAT TTAATGATGG CTTAGAAATG
15301 TACTTTTCTT TTTCTCAACT GCACCATAACC TTTAAAAGCA CCTCTTCTTA
15351 ATTTTTTTTT TGTTTACTTC TGTCAATGTT TATTGAATGA GCAAAAGATC
15401 CCGTTCTAGT CATTTCTTCT TATCAGCTCT GGATGCACTT CCTGGTATGT
15451 TAGTGAATCT TTAATCGAG ATTGTAGACC ACTGACTACT AAATTAATCA
15501 TTTCTGCATA AATTTATGGC TACCTGACAC TGTTTTTCGT GCATTTCTGT
15551 AACAAATGCA AAATAAATAG CATTTATAAT GGATAAAAGT ACATGCTGTG
15601 AAGTCATTTT CTGGATTGTA ATTTGAGCCC CATGACCTAC TAGTTGTATA
15651 ATCTTGGCAA AGGCTCATGA CTCTGTGAGC CTCTGTAACC TTAAGTAAA
15701 AGAAGCACAT ATTAGCAGTA GCCATCTCAT AATGTTGTTG TCAAAAATAT
15751 TTGGAAAGAT CCACATAAAG CACTTTATAG AGTGTGTGAC ACACAGTAAA
15801 TGCCCACTTC ATAGAGTGTG GGACACACAG TAAATGACCC CTGAATATTA
15851 CTGTTGCCCC CATTTCCATG TTACAGATGA AGAAGCCATG ATTGAGCTAG
15901 ATTAGATGAA AAGGACCTTG AAAAAATTAG TGAAGAACCCT AACTAGAACA
15951 TTGGCCTTCT GACTTCTAGT GAAGAGTGGA CATGACTGCA GGAAATGCAT
16001 GTTGTGAATG AGTGATAGAA TATAAAATG TTCAACCCAT AAATAAAAAA
16051 ATATTTTAAT AATATTTGTA CATGAGGACA ATAAGAATCA GGGCTAATCT
16101 TGTAGAAAGT GCTCTGTAAA CCCATAAATA TTTTTTATCA GTAAGATAAA
16151 ATTGTAACCC AACATTCTAT ACTCTGATTA TTTAAATAAA TAAATTTTTC
16201 ACCTTTAAGT GTTTTAATAT CAATGGTTAA TTTTTTTTGG AGGTTCAAAA
16251 AATCAGGAAA ATGGATATTC ACAAATCTG GATTTAGAAA CTAAGTTTCA
16301 GCAAATGTCT AACTATCTTA TGTAACTTA TTTTATAAAA ATGTTCTTAT
16351 ATGATTCTGA AAACAAGGAA GTGAATAGTT AATAGCATT AATTGCCAGA
16401 TCCCTTGATC AGCCAGAAAT TATCTTTAAA AAATTTTFTA ATGCCACATA
16451 TTCCCTAAAT ATTCTCTTTT AGTACTGGTG TCTTTATCTT ACAGAGGAAG
16501 AAAAGTTTAT AACAGCTCAG TTTAGACCCA GGTAGAGCGG TGTAGGCAGA
16551 TCAGGGATCA CCTGAGTATT CTTTAAAGCA CTATGTTTTG CATAATGGCA
16601 GCAAGTTATT TTCTTTCAAT TTTCATTGTT TGTAATCCAC AAATTGACTG
16651 TGTCCCAATT TTTCTTCTAC CATTATCTTT TACTGTGACC AGAAAAGTTA
16701 TTCTACTAAT GCCACCATTA GGGGACATTG GCTAATTGGA CATTTCTGTG
16751 GGAAGTAACC AGTTTCTCTA ATGTGCAGTC ACTTTGGTGG GCTAGGATAT
16801 TGTTCTTTGA CCAGGCCTAC CAGATATAGA GGACCTCTGA GAAGCTGGGT
16851 TAGTTTCAAG TAAATTCAGA GAAGCTCTAG AAAATAAGAC TGAGACTCCT
16901 TAAATCTTCC TTCCAATGAT GTCTACAAAA GGTACTTAAA AATGAAATCC
16951 TCAAGATTCT TCCAAAGAAG CCATCCCGGT AAAAACAGT ACCTTTAAAT
17001 TAGTTAGGGG TTTCCAAGTA CTGTGAAGCC CAGATTGTGC ACAACAGGGA
17051 GGCACCTGCA TACTATGTTT TGCATAAAAA TGTTCCTATA TAAAGTATTG
17101 CTAAGATTTT TCCTTTCCAA TTAAGAGAGC AGTTATCAAA CACTGCCTGG
17151 GNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
17201 NTAAGAGAGC AGTTATCAAA CACTGCCTGG GCCTGGGCTT GAGGCTACAC
17251 ATTTGCTTCT GAGCTTTTGA GGATGTGATT GGTGCTTCGA ACTGGAAGAT
17301 ATTTAGTGAC TGGTTCAATA CTGTAATGAT TAATACAATA GCATAAAAAA
17351 CAAGTCAACA GCCTTTTGAT TCTGTCTATG TTAATGACTT TTAAGCACA
17401 CATTGAAAT TTGATATATT AAATATTTT CTAGTTCTAA ACACAGATGT
17451 ATCTAGTGAT CACGTAATTC AATCAATTAT CTACTTACAT ATGTATACAC
17501 TTTAACTTTG GGCATATGTT TATCTCTTAA GTTCCAGATG TCGTGCAGAA
17551 TATGCAGTGC ATGGCAACTA GCTGGCAGTC AGTTTTAGTG AAATGGGATC
17601 CACCCAAAAA GGCAAATGGA ATAATAACGC AGTATATGGT AACAGTTGAA
17651 AGGAATTCTA CAAAAGTTTC TCCCAAGAT CACATGTACA CTTTCATAAA

FIGURE 3E

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17701 GCTTCTTGCC AATACCTCAT ATGTCTTTAA AGTAAGAGCT TCAACCTCAG
17751 CTGGTGAAGG TGATGAAAGC ACATGCCATG TCAGCACACT ACCTGAAACA
17801 GGTAACCTAAC GTGAAACAGG TAACTAACAT GAAACCTTTA ACTATTGGGG
17851 GATTGTGTCA ATACCACCTG CAATCTTTAT AGCATACTTA TCTAAACATA
17901 CAAAGCACAT ATTAATAAAT ACAACACAGG CTTTTTATCC CACGTGTGTC
17951 TTGAGTGCCA GCTGTGTACT ACATTGACCC TTCTCCAAAA CATTTGGGAGA
18001 TTGAAGGGAG GAAAAAAGA GAGATGATCC TCTTTACTGT ATTTCCACAA
18051 ATATAAAACC CCCACCTAAT GAATTATGCT TTATTGTGAT TTAAAAGAAG
18101 AAATAAACAT GTAAACCTTT CATGTATATC TCTTTTTAGT CTTACTTGTT
18151 TTTATGGAAT TCTAGATGTT TTCTGAACT ATATGGTTGC AGTATCAGAC
18201 TCATTTTCAT CTATTTTCTC CCCTTTATAC CAGCCTTTAT CTTTCATGTT
18251 ATTTGAATAA AATATCCGGG TCGTTAAGCT TTAGTCCACA AGACGAAATT
18301 CTCACCTTCC CTAGCAGTGC TCTGTCTGT ATCATAATAT CCTTCATCCT
18351 ATTTTCTTCC ATATTCTACC TGCTTATATA AATTAAAACC TGTTTCTTTC
18401 CTGATAACAC CACTTCACTG TAGATATTGG CAATAATTGT TAACCTCTGG
18451 CACATCCAGA CCCTTTATCT TGGAAACGTC TTCAAGCTG TCTTGAGGCT
18501 GTAAACCTAG AACATCAAGA CATAGTCTGC CTTCTCTCTG ATTTACAGCAT
18551 CTAACCTCAC ATCCTTTCCT TCTCATTCCT CCAGTGCAAC ATTTTTTCAG
18601 ACTACGGTGT TTCCTTTCCT AGGATGGAAT AGTTACATT CAACAACACC
18651 ATCTCTTTGC TCCTTAGATC TCATACCATG TCATTGTGAC TTACCCTCCA
18701 GGAAGCTTCC TCACTCTGAG AAGGCCCCAT TATTGTTTTT TTCCAAGATG
18751 CTGACTGGTA AATATTCTA GGAAAAATA GAAATGATTC TACTTTGTTT
18801 GTCTATAAAT TCATCGTCTT TAATTGTCCC AGCTGCTCCA AAATTTTCTA
18851 TGTATCCCTT GTTTATTCTT CATAGGAAAT ATGTTCATAG GAATACTCTC
18901 TATTCCATAT GAAATTTGTT CTCTTCTGA ACCTAGTCTG TTCCCCCATC
18951 ATCCATATTT ATTTGTTATTT TACTAATAAT ATCAAAATA TTGATAGGCC
19001 CTCCTTCCAT CAAATTTTAT CCATGTCTTT ATTTATGCCC TCCAGATATC
19051 TTCTCTTAGG AAGTCCTTGC CTTCTCTTT CAGGGATCTA GCTGTTTATT
19101 TTCATTTTAA TCTTATGTCT TCTCTAGGAT ATTACCCCAT CAATTTATTC
19151 TAATATCTCC TGCATTTATC CTCTTCTCT TTTTCTTGCA CATTCACCCA
19201 AATTGTTGAA AAATCCCAAC TGAAGACCTA GTTGAGTAT CAACTCCAAA
19251 TATATATGAA ATGGAATTGG TGTTACATGA AATCACTGTC TTTTCTTAG
19301 TTTTCTATGC CTGTTCTTGA CAATCCATTG GACCCCAAGC CTCATAGTTT
19351 TATACAATTC CTTACTCCAT CTCTTCTACA TACAATCAGG TCTTATCAAT
19401 TCAATTTCCA TCAGGGCTCT GCAATTGCCC CTTCTCCAC CTTGGCCACC
19451 ACCATTGTAT ATTAGAGGGA CCTTGTGTCT TCCTGTAATA ACATCTTAAC
19501 TAGCCTTATC ACCCACACTA CTTTAGCCTA CCCATAAGTC TCATCTTTCC
19551 TCCTACTCAC TTAATTGAAT TGGTTCTAAC ATACAATTAG ACCATTTATA
19601 CATTTGGCAGG TGAATGTAA TATCTGAACA ATAAAGTTTA GACGTGTCAA
19651 GTTGGGTACC TGAAGCACAG AAGTAATAAT GAAAGGCACC ATGTGTAGGA
19701 GATGGGTTAA AATACTCCAA ATATTTTGCT CATTCTCATT GTCTAGAAAA
19751 TATCCCAGAA TCCATCGCTA ATTAGAATTT GGCTTCTCTC TAGCTTTTAA
19801 TTCTTATATC CTTTTATTGT ATCTTCTCAT ATAGCTGATG TCTCCAGCCA
19851 AACTTCATTT ATTTAGCATG CTATTTCACT ATTTTCAGTAT TTTAACTCAG
19901 AAAACATTTA TAAACATCT AGTATGAACT AATAATTGAC TAGATTCTCT
19951 TCTTTAAACA TATCCAACCA TTTTTCATCA TCAGATTGCT TTGCTTCCTT
20001 TAACTGTATT ATTATTTTCC CTTTCTATGA CACATAAAAT TTTATTCATT
20051 TTTAAAAGCC CAGCTTAAAT GTGCCCTCTT TATTAAAGCC TTTAATGGCA
20101 TTTCTGGACT TCATCCAGA CTGTGCTGACT CATAGCCTCA ATGAGTGAAG
20151 CTTAAGAATC CATGCACTTA AGAATCTCTC TAGGTAATTC CGATATTCTG
20201 TATGTATTGG AGAGTACTGG AGTAGATTAC CAGGAACCTT TGAGGACAGG
20251 CAAAGAGTGT CAGAAAGGTC CATCAAGGGG TGACAGGTGT TTTCCAGTG
20301 GGTGGCCAGC ACATCATGTC TATGTGGAGT CTGTGGGAAG AAAAAATGTC
20351 AAAATGTCAA AATCCAGGTA GGTGGTCTGC ATCAGGGTGG TCTAGCACCA
20401 GGTATAATGG TCTTGATCAT TGGGCAGGAG CTGAGTCTTT GAGAACTGGC
20451 AAATAAAATT ACAGGACAAC ATATCTGAAA TAAATGAGAG ATTCAGGAAC
20501 AAGGCAGGAG ATACTAGGTT GGTGCAAAAG TAACTGNNNN NNNNNNNNNN
20551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
20951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
21001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
21051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
21101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
21151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
21201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

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FIGURE 3F

21251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
21951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNA	TTGGTTT
22501	AAACTTGGT	CTTTTGTGGA	AGATAATTTT	ATAATTGGG	TTTATCCAGA
22551	GCTCTCCAA	GCTCCATAAT	TTAGAATCAA	AAGAGAAAA	TAGGTACTT
22601	CCCTCAGATG	CAAAAATTTA	ATTTAGGGAA	AGTAAATGT	GTATTTCTGG
22651	TTTTTAGGGG	TGTTCTTTTC	TGCAGTGATT	TCCTTATTAG	CTTTTGTCC
22701	AGTGGAAGAT	ATCAGGCATA	TGCAGTGATC	CACTGGAAAT	CCACTGAGCT
22751	TGCAATATA	TTAATGCTAC	AATATGATTG	ACTTGGCATG	TATCAATTT
22801	AATTATCATC	ATCATCATCA	TCATCATTTT	AGAGACAATA	TCGCACTATG
22851	TCACCGAGGC	TGGAGTGCAG	TGGCTTTATC	TCAGCTCACT	GTAGCCTTAA
22901	CCTCCTGGGC	TCAAGTGATC	CTTCTACCTC	AGCCTCCTGA	GTAGCTAGGA
22951	CTACATGTTT	GCACCACCAT	GACCAGCTTA	TTTTTGTGTT	GTTGTTTGT
23001	TTGAGACAGG	GTCTCATTTT	CTTGCCAGG	CTGGAGTGAA	GTGGCGCTAT
23051	CTTGACTCAC	TGCAGCCTCC	ACCTCTCAGG	TTCAAGCAAT	TCTCGTGCCT
23101	CAGGACTCCC	AAGTAGCTGA	GATCATAGGT	GTGCACCACC	ACACCTGGCT
23151	AATTTTTGTA	TTTTTAGTAG	AGACAGGGTT	TCACCATGTG	GGCCAGTCTG
23201	GGTATCGAAC	TCTGACTTC	ATGTGATCTA	CCTGCCTCGG	CCTCCCAAAA
23251	TGCTGGTATT	ACAGGCGTGA	GCCACCGCTC	CCAGCCTGCC	CAGCTAATTT
23301	TTTATTTATT	TTTGTAGAGA	TAGTCTCACT	ATGTTGCCCA	GGCTGGTCTC
23351	AAACTCCTGG	TTCAAGCAAT	CCTTCTGCTT	CAGCCTCCCA	AAGTGTGGG
23401	ATTACAGGCA	TGAGCCACAC	ACCCAATCTA	GCTTATTTGT	TAAATACATT
23451	ACTTATATAT	TTTATAAGAA	TTTATAAAAT	TCTTATATAC	CATTAAATAG
23501	ATTGAATGTG	GGCAGTAAAA	CTGCTGCCCT	TCTATGGCTA	CAAATTAGTG
23551	CACTAAATCA	AAAGTTCACT	TTTCTTTGTT	ATCCTACTTA	CATAGCTTTC
23601	CTCATCCATC	TCCTGAATTA	AGATTTGAAA	TAAAGGATGT	AGGAAAGTTG
23651	CATGATTCTG	ATTGCTCTCA	AGCAAGTGAA	TAAAAACATT	CAACTTACCG
23701	GTGGGTAATC	ACTAGAAGCA	CAAAAGACAT	TATAGTTGCC	TATCATAAAT
23751	CAGAGGGAAA	TAATATTAG	TATATCTAAT	TGAAATTCAG	GTGTTTATA
23801	CAGTATCTTT	TATATAGACT	TAATTATTA	ATATAATATT	TTTCTTCAGT
23851	GTGAACATCA	GGTGAGGAAT	CTCTTTTAC	ACTTCTTGTA	GTGCAGTGGA
23901	CAGTTGACCA	ATATATACTT	ATTTACTGCT	TGCTATGTTT	AGGTTCTAGG
23951	TGTGGGGTTC	AAGACCCAAG	TTTGAGTGCC	AGGTGGCATT	GGGATCTTT
24001	GCCCTGCACA	TCCAAATAAC	TCCATTATTA	TAATAAAAAC	ATATTTAATA
24051	TGTATAAAAC	AAACACAAAC	CTACATAATA	TGTTGGTCAA	TTNNNNNNNN
24101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
24601	NNNNNNNNNT	TTATCAGTAT	GCTATGAGAA	AAATGGCAAT	TGTACATATC
24651	AAAGAACATT	TCCTCTTTTA	TTGGAAATAT	TCTTGGATGG	TAGGTTGAG
24701	ATCAGAAGAG	ATTATGGGTT	GACTAAAGCA	CTCATGGTAA	GCTGCCCTCC
24751	GACACCCTCA	CTATTCATGA	AAATAGTGAG	AATAGTAGTT	AGAGGAGAAT

FIGURE 3G

24801 AAATAGGAAT TTCAAGATAC AGCAAGAGAA AACACATAGT GGAGAAAGGA
24851 ATGCAGTACA AGGGGTCAGG CTGAGACCAA AGCTTGACTA CAGAGGAGGG
24901 TATTTTATTA GAAGGAGTGT AAGCAGGAAG GTTGAATAAC TGAAGTGGAC
24951 CCCTACTTAC TCTGCTCTTA GTTTGATGTG ACTGTCCCAG AAGTTTGAAT
25001 CTGTATAAAT AGAAAAATCAG GAACCTGTGC TAAATTTAGA GAAGGAAACA
25051 ACATAAGTAA TTCTAAAAAC AGTGATTGTT TTTGGCCATT TTCCTGAACA
25101 CTGCAGAAAT CTCTTTAGAT GGAGGATTGG TTCATTACAT ATTTACTGAG
25151 CCTCCTAAGT AATACAGAAT AAAATCTCCA GTCATTTCAA TGGCCCATAA
25201 AGCCCTTCTT CTCAATCCAG TTATCTGTCA CTTCCTTTAT CTTGAAATTT
25251 ATGCTCAAAAT GCTACCTCTT CAAAAAGGAT TTCTGACTAA TTTGCCCTTG
25301 AACGTCCTTC CTCCCAGCTA GAATTTTCCA TACTCCTTTC CTGCTTTACT
25351 TTTCTCTTTT GGATATATTA TATGTACCAT TATCTGTGGG TCTGTTCTCA
25401 CATGCTGCAT GGGGACAGAG ATTTTCTTGG GTTCAAACCT ATTTCCAATG
25451 TCCAGAAAAA TATCTGGCAT ACGTGATAAT AAGTATATTA TAAATGAATG
25501 AATCAATCAA TGCACAGGCC AAGAAGAGTG ATAGGCATAG AGCAAAACCC
25551 AAGTATGCAT ATGCTGGGTG TCTTAAGTAG AAACCTGCAG TCACAAAACA
25601 ATTTTAAAC AGTTATGTAT TAAAAATAT GAGAAAGGCA TGTCTTGATG
25651 AATNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
25701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
25751 CATGTTGGCC AGGCTGGTCT TGAACCTCTG AGCTCAGGCA ATGTGCCAC
25801 CTCGGCCTCC CAAGTGCTGG GATTACAGAC ATGAGCCACT GCACCTGGCC
25851 TTTTTTTTTT TTTTTTTTTT CTTTTTGGTA TGGATGTACC ACAGTTCCTT
25901 TAACCAATCA CTAGTTGAAG GACATGTGAG TTGTGTCCAT TTTGTGGCTA
25951 TTAGAAATAA AGCTTCTATA AACACACGTG CACAATTTT GTAGGAACAT
26001 AAATTTTCTT ATGTCTAGGA TATGCACTGA GGAGCACATT GCTGAGTCAT
26051 ATGGTAGTTG CATGTTAAGT TTTTAAAGA AACTGACAAA CTGTTTCCA
26101 AAGGAATTGT ACCCTTTAA ATTCACACCA ACAATGTATG AGCCATCCAG
26151 GTTCACACAT AGGTGTATAA TGATGTATCA TTCTGGTTTT GTGTTTCCCT
26201 GATGGCTAAC GTTCAATAGC TAATTGAATA TATTTTATAT GTACTTATGT
26251 ACCATCTGTA TATCCTCTTC TATGAAATGG CTGTTTATTA CTTTGGCCCA
26301 TTTCTCATTT GGATTGTTTT GTTTTATTGT TGAGTTTGGG GACATTTTGA
26351 ATACATTCTA GCTACTTGTT TTTGTTAGAT ATATGGTTTG CAAATGATTT
26401 TTGCCAGGCT GTAGCTTGTC TTTTCTTTTC TTTCTTTTCT TTTTGTGAGA
26451 CGGAGTCTCG CTCTGTGCGC CGGGGTGGAG TGCAGTGGCG CAATCTCAGC
26501 TCACCGGAAC CTCGCCTCC CGGGTTCAAG CAATTCTCCT GCCCAGCCT
26551 CCCGAGTAGC TGGGACTACA GACGCGTGCC ACCATGCCCG GCTAATTTTT
26601 TGTATTTTGA GTAGAGGCAG AGCTTCGCG TGTTACCCAG GATGGTCTCA
26651 ATCTCCTGAT TTCGTGATCC GCCCACCTCG GCCTCCCAA GTGCTGGGAT
26701 TACAGGCTGC CACTTCGCG CCCGGCTGT AGTGTGCCTT TTCATCCTGT
26751 TAGTAGGGTC TTTTACAAAG CAAAACCTTT TAATTTTGAT GAAGTCTAT
26801 TTATCAATTT TTTCTTTTAT GGATTGTGTC TATGGATGTC TAATGTCTCT
26851 AGCACCCTTT GATGAAGAG CTGTCTCTCC TCCATTGAAT TGCTTTTCTT
26901 TTTGAAGTCA CATTTGAATT TTGAACTAT GCTTGTAAAT ACTGTATACT
26951 GAAAACGTAC AAAGAATAAT GTTCCAATTT AAGTTAGATT TAAGTTAATG
27001 ATGTTTCTTA ATAAGGACTC TTCAGATATA AATATTCAG AATTCTCTT
27051 AGCTTTCTAA TCAAAAACAC CATCAGTGAA TATTACCTTA CTTTGGGAAG
27101 TATAGATATA CATTTGAATT AAATTTAGTT TTTCCAAATA ACCCTAATT
27151 TGAGAAATAT ATTCTATCTT GAAACTAAAA TAATTTAATA CAACTTTATT
27201 TTCTTCCCTC CCTTCCCTC TCCTGTCCAC ATTTTGTAAG ATCTGGTCTC
27251 GAATAAGTCA CAATATAAAA ATAAATGTAC ACTTAACTTC CACTTCTCTC
27301 AACCAAGGC TACTTTCTGT TCCTCAACCT TGGGAACAAG GTGAAAAACA
27351 GTAAGCAATT TGGGCAGGGC ATTGCCAAAA CAAGATTCAA GCAGCCACAT
27401 GTGGACACCT CTTAAAAGAA TTTGGGGAAA CGAGACCAAA GAAGTCAGGT
27451 TTGATTTTGA GTGACAATAA CAAACATGAA GTGACTCTTC CCAAGTAAGA
27501 GTGCCAGCTG GATGTGGCCT GGCCACATGC TTACCTATGC TATACTTCCC
27551 AGGAAACCCT GATGCTCTGC TCCAGGAGAG ACCTTTATCC TTTGGAGGTT
27601 CAGTGTCTTG GGAGCTCTT GATTTTGTCA AAGAGATGAG CAGAGATTCC
27651 CTGTGGGTAT TTTAAGGCTT GGTGTCAAGG TATTTTCTG ACCTGTCTGA
27701 GCAAAGTCCA TGTATCAAAT GATCTGTTTC TAGTTTGTTT AAATCTTCA
27751 CATCACTTGT AGACCTAACA TGGCAAAGCT TCATTATTTA ATCATAATAA
27801 CACCTACTAC CCATACTAAC TTATGATTTA TTTTCTGTGC CTGGAAATAG
27851 TCTCTGTGTT TAACAATAAT ACCTGGATGC AAAACAATCC ACTGTTATAT
27901 GGCCACAAA TATTAATGAT CTCTGAAGG CCAAGAAAAA ATTTTAACTA
27951 TAGTTCTTGC ACAGAAATTC ACACCCAGAA TCCCCAAAAT TAAAAAAAAT
28001 TTGGACAACA CAAATAATAG TTTAAGATAC ACATACATAC AACACAGATA
28051 CTCTTACACA TAACATCTTT TACGGAATG TGTTTAGTGA AACTGTTTCA
28101 TTGTTGACAG CCACAGAAGT CATATTTTGC TAAATAGCTG CTCCAGCTGT
28151 TTTTCTCTTT GGAAAATGTA TCACTATAGG ATACCTGTGT TATTGCATAA
28201 GATAAAAGAA AATATATGTT TGATAACCAA AAAGTTTAA GGGCTTTCAA
28251 GTTATGTAAA AATGGACCTA TGGACATGGT TAATTGTCTT CAGGATGCAA
28301 AATTGGAGCT GAAATAGTAT ATCAAACAAT TGCAAAAAGT GTACTGCAGC

FIGURE 3H

28351 TATCTCTGG GTCAAATCTG GTACCCAGAA ATGGAGAAAA GCCTCAAGAA
 28401 ACATTGCTGG TTGGCCCTCT GCCACTTGAC TGTATGATCT GATCACATGT
 28451 AAGTTTCACA AACGATTGAT ATTTCTCTGC TAGTTTGACG TTGAGAAATT
 28501 GCTCATAAAC CTCCTAATT TTATCTTCTT GGTCTTTTGA GAAACACATA
 28551 GTATCCCAAC TTGTCAGAGA GGAAATTGA GCTGGTCCTT CTTTATCCAG
 28601 GAGAGACCTG AAAAATTAGG TGGTGTGAGT ACTGCAGAGT GAGGCTGATT
 28651 TTCCAAAGCA CTAACCTTGT TCTGATTAAG AACATTTTAC AATGGTCTCC
 28701 ACTGCTGGTA ATGATTATCT TCTTTTACGT TCTGAAAAAT CTGCTCTGGC
 28751 TGGGAAGGTG CTGCTCACTG CCAGGTGGGA TGGGNTGCCA TACCTTTGGA
 28801 AAACCATGGC TTAGCAGTGC CACCTCCATC TCCATGGTTC ACTCCAGGGT
 28851 CACCCACCGG TCATGCCATG CTGTTGAGGG GCAGAGACCT GGAGCAGACA
 28901 CTGATATGAC TGCCTGCACA GCCACTGGCT TCTCGGTGGT ATTCAAACGC
 28951 CAAGCCATT TCCCATACTC TTTGAGTTTG AGGAACTTTT TGGAGATTGC
 29001 TTGAGATTCT CTGCGTAGAA AATCATGCCA TTTGTAAAAA GGGTCAGTTT
 29051 TGCTTCTTCC TTTCTCATCT GTATGCCTTT TGTTTTTTCT GTCTTACTGC
 29101 ACTGACTAGA AATTTAGCTC TATGTTGAAT AAGAGCAATG AAAGAGGACA
 29151 CCCTTGCTTT GTTCTGATC TTGAGAGAAA GCATTCAATT CTTTACCAT
 29201 TGTGTTGAT GTTAGCTGTA GGTTCCTCTT TATCGAGTTG AGGAAATTAC
 29251 CCTTACTTGG TATTTTCTG AGAATTTTGA TCTTAAATGG GGGTTAAATT
 29301 TTGTCAAATG CTTTTTTTGG CATTGATTGA TAGTATTCTT GCAATTTTTC
 29351 ATCTTTGCTT GTTAATAAGG TGGATTATGT TGATTGATCT TCTAATATTG
 29401 AACCAGCCTT GGGATTCTTA CACTGCTTGG CCATGATATG CATATTCTTA
 29451 CCCCACCTGG CATTGATGTA TGTGTATATA TAACTGATTT CTATTGATG
 29501 ATATTTTGT TAAAGATTCT GCATCTATAT TTATGAAAAA TACTGGTCAG
 29551 TAGTTTGTCT TTTTGCACTG CCTTTATCTA GTTACTGTAT AAGAGTAATA
 29601 CTAGCTGTGT GAAATGAATC TCTTCTAATT TCTAAAAACAG ATTGTGTGGA
 29651 AATGGTATTC ATTTATCTTT AAACAATTGG GAGAGTTCTC CAGTGAAACT
 29701 ATCTGAACCT AGAGATGTCT TTTTGGAGAA TTTTAAATTT ACATTTTAT
 29751 GCTCTCAGGA TGCAAAAGTT GAGCTGAAAT ATACTATCAA ACAAGTTAGA
 29801 AAAAGCAACA CTCTCGATA ATTCATAGAT TGCAAAAGGA ATCTTAAGAT
 29851 AATTTTAAAT ATACATCAAA CTGAATATGC TAAATATAT TGAATTGAAA
 29901 TGAAAATTCA ACATATCAAA ATTTGTGAGA CTCAGTGAAA AGAAAGAAAT
 29951 TTGTAGCACT AAGTGAATAT ATTTAAAAAG AGAAAATAGA CCAATAATCT
 30001 AAATCCCTC CACAAAAGAA AGCCTAGAGA TAGAAAAGGC AGAGAATCCA
 30051 AACCATGTCAG AAGGCAGGGA ATAATAAAAT GCAGAAATCA ATGAAATTGA
 30101 AAACAGAAAA ACAGTAGGAA AAATCAATGA AATGAAAAGC TTGTTCTTTG
 30151 AAAAAATAAA TAAAATTGAC AAATCTCTAG CAAGCCTGAC AAAGAAAAAA
 30201 AGAGAAAATT CAAGAATGAA ACAAGTCAG ACACCTGCAG CATAAAAAAA
 30251 AAATAAGAGA ATACTACAAA CAGCTCTCAC AGTTAAATTT TATATATGAG
 30301 ATGAAATGTA CTGATTCTTC AGGAAACACA CCTACTACAC TATACTCCCT
 30351 AATATGAAAT AGGTAATTG AATATTTTGA ACAGTTGAAT AAAATTAATA
 30401 CTATAAGTAT TAAAGACATT AAGTGTATAA TGGTTTCTTT GTTTGGGCTG
 30451 CTATAATACC AGAACTGGA TGACCGATAA ACAACAAAAC TTTATTTCTT
 30501 ACAGTCTGGA AGCTGGAAAG TCCAACATCA GGGCACCAGC AGATTCAAGT
 30551 CTTGGTGAGG GCCCATTTTC GTGTTTCATG ATGGTTCTCT CTTGTTGTGT
 30601 CCTCATATGG TGAAAGGGAT GAGGCAGCAC TCTGCAGCCT AATCCCACTC
 30651 GTGATTACTG CCCTAATCCC ACTCGTGAGG GCAGAGCCCT CATGAGCTAA
 30701 TCCCACCTAT AAGGGCCCTA ATCCCCTCG TGAGGGCAGA GCCCTCATGA
 30751 GCTAATCACC TCCCAAAGGC CTTATATCCT AATGTATCA CACTGCTGTT
 30801 TAGGTTTCAA CATATGAATT TTGGGGTGAT GCAAATATTC AGACCAAAGC
 30851 AGTTTCTTT TATACCACTC TAGTAGAGAA AGGGAGGAGT ACGTCTGTTA
 30901 TTGCCAGGTA GGGGTAGAAA TCCGGGTTTC CAACTTGGGC TTTGTTATAC
 30951 CCAAGGAGAG GATTTCTCCT TGCTCCTGGG TTAGCTTGGG ATTTTGGCT
 31001 CCCTACTAAG TCTCCACTGG GATCACCCTG GTTGGGAGGA GTAGTGATAC
 31051 CTTTCTACTG ATGTCACAT GTTTTCCATT GACATTATGG TGAAGGGTC
 31101 TTATTACTAN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
 31651 CCATGGGTAT ATTTTGAATA TCAAGCAGGG ATACTTTTTC TCCATCTATT
 31701 CAAGATCAAG TTATTAACA CATATTAAGT GCTGTGGTAG AAAGTATTGG
 31751 GATGACTGTA ATGAAATGAA TATATTCTT GTGCTATTAA AGTTTAGAAT
 31801 TATATAATTT TAGATCTTCA TTGAATCTCA TAGATAACTT CATTTAGTCA
 31851 TTTCAATTTG CAGACATAGG AAATGAAGCA CACAAGTAA GTGTTTGTG

FIGURE 31

31901 AGTTTCTAC AATTAATTAT TTGCAAACT ATTACTAGTC CAGAATTCCT
31951 TCTACTATAT TGTCTCCCT ACCTTAGAAA TTCAATACAT CATTGTGTTT
32001 ATTGGAATTA CAGGAGTTT CTTCATTAT TTCACAATGT CTAAGTACAG
32051 ACATTATGAA GTAGGGAAT TTACTTTCAT TATAAACTT TCTTCATTAA
32101 CATGTATAGA TACATTATA ATGTGAGTAT ATACATACTT TTGTCCAAAG
32151 TGGATTTAAA ATTCAAAAAA AACTAAATTT CTATGATCAA ATCCATGCTT
32201 AGTCTATAAA ACTAAAAATA TTGTGAGTTA ACGTAATAAG ATCTGTAAAA
32251 TACTGAGGCC ATTATGGGAA ATGTTTAAAG TTCCTACAT CATATCACAT
32301 TTTTATCTT GGATCAGTTC CAAAAGTGTA ATGTTTGCTA TTTTGAAT
32351 ATCTTAGGTA TCAAATTCCA ACTTATAAAT TTAAGGTTT TTTAAATGTA
32401 ATTCCTTTTA TAAAAAGTGA ATTTGGGTTA CTCTGCATAA TTCTCCTTGA
32451 CCCCACTGAT GCTTTAATAT CTCTCATTA GTGGACTCCA GGCAGCCACT
32501 CTTTGTCTT TCCAAGCTCC AGCTAAGGCC AGCTGTTCTT TGAGCAGTGT
32551 TTTTATTAAC TTATTTAGGA ACTGGTGCAT ATCTTATTAC CCTATTTTCC
32601 ATTCCTGTCC TATGCAGCTG TAGTTGATAC TTTTCATAAC AGCCTTTACA
32651 TATCAACCTC CTCCCTATT TTTTCTTCTA TTCTCTTTTA CTTCCTTTT
32701 TAAGTAAAT AAGCATGTGT GTGCATGCAA AAGCCCTCTT CTTTCTTTCT
32751 GGTAACCATA TGACGTGAAA GCTTCAGGAA TGTGCCTGTT GTTTGTCTGA
32801 GATTATAAAC GTCATGGAAG AACTTTTACT AATGATGTAA ACATTCAGAA
32851 ATGTAGAATA CATGAATTTT AATAATAGCA AAATTTCTTC AATGTGTCAT
32901 TTAAGAAAT AATTTAGACC TAATTTAAAA TCAATGCAAT GTAAATACAA
32951 AGAAAAGGAT TTGAACAGAT AGAAGACTGT ACAAATACT ACTAACCTCA
33001 GCTTACTGAA TTTCAAATAT TACAAGTTT ATGGCATATG AAAATACAAG
33051 TTTGAGGAGG GAGCTATTTT ATAAATGTAA GACACGCATA AGTTGCAGCC
33101 ACTATGAGAT TAAACACATT CAAAATTCAA ATAAGGTAAA AGTAGCATTT
33151 TTTAGTATAT TAATAAGTTA TCATGCAAT TTGAATTTT ACTACCTACT
33201 CACTACAACC TTGAATAAAT CACCCATTGC TTCTATGTCT AGATACCTTT
33251 TTATGCAGAA TTACTATTTT AAAAGCAACT TATATTAGAA ATATAATAAA
33301 TATTATTCCA TATGAATTGC AATAATGAAA TCTATACTTA TTAAGAGATA
33351 CATTAAAAAT TAATAGCCCA AGCCAGGCAT GGTGGCTCAT GCCTGTAAATC
33401 CCAGCACTTT GGGGAGGCCG AGGCAAGGTG GATCACTTGA AGTCAGGAGT
33451 TCGAGATCAG CCTGGCCAGC ATGGCAAAAC CCCGTCTCTA CTAAAAATAC
33501 AAAAGTTANN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
33751 NNNNNNNNNN NNNNNNNNNG ATCTCACTCT GTCACACAGG CTGGATATGC
33801 AGTGGCACCA TCACAGCTCA CTGCAGCTT AACCTTTTGG GCTCAAGCGA
33851 TCATCCTGCC TCAGTCTCCC GAGTAGCTGG GACTACAGGC ACATGCCACC
33901 ACACCTGGCT AATTTTAAAA ATTTTATTG AGACAAGATC TCACTATGTT
33951 GCCTAGGCTG GTCTCAAACC ACTGAATCA ATCAATCCTC CTGCCTTGGC
34001 CTCACAAAAT GCTGCGATTA CAGGCATGAG ACACTGTGAC TGGCCTACTT
34051 TAATATTTT TAAAAATCAA GATCACATT TGTAATTTT AAACACACTA
34101 CATTATGAT ATTTGTTGTG CATGAGAGGT CTAGCATTTT TAACTTTTGG
34151 ACTTGAATTT TAAAGCAAAA TTTGTATTTA GGTGTTATC AAAGAAATGG
34201 TTAAGTGTGT AAAACATGTT AAAAGTTGTG TGTGCACCTT AAAAGCTAAA
34251 TAGGATGCCA TACTCAGAAG CACTATTAGG AACTTTGACT GCAGATTAAA
34301 CAGGTACCAA ACAATAGTTG AAAGTAGTTG GTGACATACT TGGGCTAATC
34351 ATTGCTAAGG CTTCCTTTCT AATATGGATG TATGAGAAAT ATAGTAAAGC
34401 CCATGATTGT TTTTCTATTA AAAATCTACA TTTACAAAAT ATTATCTAGA
34451 AAGTATGAGT GTCTAGTACT TTTAATTTCT ATATACATGC ATAACCTGTG
34501 ACTTGTTTT AGTATTATTT GTACATTTT ATGGGAAAGC TTTTTCATGC
34551 TTTTAATATT TTCTACTTAT GGGAAAATGA TATGCAGTGA CATGTACAGA
34601 ACTTGTGTAC AATTCATGA GTTTTGACAA GGCATACAC CCATGGAACC
34651 ACCATTCAATN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
34701 NNNNNNNNNA TATATTTTAT TGTAACTTTA ATTCACATT TTCTGATGAT
34751 TCATTATGTT GGATACTTTC ATATGATTAT TGGCCATTCA TATACAGGCA
34801 GTCTTTGCTT TACATAGTAG TATAGGACTA AAAAATGATT ATAGAACTG
34851 AATTGTGCA AAGTAATCCT AATAATCAAT GTAGAAAATT ATGATTGTTT
34901 TGTGACCTTC AAAAATTTG TTACAATATT CAAAACCTCA AGTGTCAATT
34951 ATAAATGTAT GTGAAAAACA AAAATTATTT AGTATACTAA TTTAAACAT
35001 TAGAAACATA GAGATTTT TGTATAAAAA CTTATCAAGA ATTTTCTTCT
35051 TCATTGTTCA GCTTATGTTA CAGAGAGGGC CTCTTTTCTA TGTTCAGTT
35101 AATTGTTATA CACTTTCAAA GTTTAGATCA GTTTTCAATA TTTTATCCTT
35151 TGCACTTTCA ATATTGTCAA ATATCAGCAA GAGTTCTCTT GGTGTGAAAT
35201 TTTTGTTTT CTGTTTTT TTTCTTCAA GACATCATCC TTCATTGAAT
35251 TCATCAGAAC CACTTGCTTT AATTTCTGTC CATATTGTC TTCAAGTAAGT
35301 TGTCTGGCT GCATATGTAA AGTTTCTTGA ACAGCAGTGT TAACATTCCC
35351 ATGGTCAGCT CTTGTTCTG AACTCCGTT TATGTTATAT TCAAATTTCA
35401 TTTCCAGCAC TCTCACTTT GTTGCTCTGC TACCATCTT GTTAGCCAAT

FIGURE 3J

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35451 ATGTGTCACA CGAGTTCATT GCTGTGAGAC AAGGAGGCAA CATAACTACA
35501 CAATTTTCTC CCTGTGCATA AACTGAAGAA CAAATGCACA ATGACCAATC
35551 AATGACAGAT TTTGAACAAA GTGATGTAC TGATTATAAT GTGCATCTGT
35601 TATTTATGTA ATGATTTTAT GGATGAAAGA GCTAGAAGCA AAGTTTTCAT
35651 ATTATAAAAT TTTTCATACC CAATATATGA TAGTAACAAA TTCAAACCTCT
35701 GTTTTGTAGAA GACAGGTGTT ACTTAACTAA ACCATAGTAA CAAAAATTCA
35751 AGCACATTGG AATGTGCAAA GGACTGACTT ATCTCCTTTA GGAAGTTTC
35801 TGTTCAGTC ATTACTGCAT TTTTCTCCTG AATTGTCTGT CTTTTTAGTA
35851 CTGAGTTATA GGAGTCTCTT ATACATTTTG GATACAATTN NNNNNNNNNN
35901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
35951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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36301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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36551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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36751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
36951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
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37651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
37951 GTATAAGGTG TAAGGAAGGG GTCCAGTTTC AGTTTCTGC ATATGGCTAG
38001 CCAGTTTTTC CAACACCATT TATTAAATAG GGAATCATTT CCCCATTGCT
38051 TGTCTCTGTC ATTTTGTGCA AAGATCAGAT GGTTTTAGAT GTGTGGCTTT
38101 ATTTCTGAGG CCTCTGTTCT GTTCCATTGG TCTATATATC TGTTTGGTAC
38151 CAGTACCATG CTGTTTTTGGT TACTGTAGCC TTGTAATATA GTTTGAAGCC
38201 AGGTACCATG ATGCCTCCAG CTTTGTCTT TTTGCTAAGG ATTGTCTTTG
38251 CTATGTGCTC TTTTGTGGT CCATATGAAA TTAAAGTGG TTTTCTCTA
38301 ATCTGTGAA GAAAGTCAAT GGTCCTTCA AGGGGGATAG CACTGAATCT
38351 ATAAATTATG GAGTCTCACT CTGTCACCCA GGCTGGGGTG CAATGGCATG
38401 ATCTTGGCTC ACTGCAACCT CTGCCTCCCG GGTTCAGTG ATTCTCCTGC
38451 CTCAGCCTCC TGAGTAGCTG GGATTACAGG CATGTGCCAC CTGGCTAATT
38501 TTTATATTTT TAGTAGAGAC AGGGTTTCACT CCTGTTGGTC AGGCTGGTCT
38551 CGAACTGCTG ACCTCATGAT CTACAGCCT TGGACTCCA AAGTACCTGG
38601 ATTACAGGTG TGAGCCACCA CACCCAGCCT ACAATTCTTT ATTAGAGATA
38651 TGTATAACAA ATATTATGTT CCAGTCAATA GCTTGACTTT CTGTTTCTT
38701 AATGGCACCT GTGCATAATC AGACGAGTTT AATTTTGATG AAATCTAAAT
38751 TAGCAACTTT TAATCTCATG TCAGTACATT TTGTGCTCTA ATTAAATATT
38801 GTGAAAATAA TATCTGGGT TTTATTCTAG AAATGTTATA GTTTTAACTT
38851 ATACATTTAT ATTTTGTATT CATCTTGAAT TTTGGGTGTG TAGTATGAGA
38901 AGTGATTCAA AGTTTTTTTT TGTACATTTA TCAAAACATT TAATAACTAT
38951 TTAAAGATA CTTTATTTA TAATAATAA ACATAGGTCA TAATAAATTG

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FIGURE 3K

39001 ATATAGGTCA ATCACTTGAC CCTATGTGCT TGAATTTATT TCTGGAATAT
39051 ATTTTATTCC ATTGATTAT TTATCTGTTA TTGTAATAAA ACCACACTGT
39101 GTTGATAAAT GTAGCTTTAT TATAAGTCTT GAAATCAGTT TGTGTAAGTT
39151 CTACAAATGT GTTCTTTTTT CAAAATTCTT CTGGCTATTT TTGGTCTTTG
39201 CATGTCCATA TAAACTTTTA AATTATAATG ATCTTATTAA TTTTACAAA
39251 AATGCCCATG GCATTTTCAT TGGGATTGCA TCAGATCTAT ATACATGCAT
39301 GTATACATCT ATACATGGGG AGAATTGACA TCTCAGCAAT GAGTTACTAA
39351 TGAATATGTT ATTATTTCTC CATTTTTAAA ATTATTTATT TCAGTAATGT
39401 TTTGTGGTTT TAAGTAAATG GATTTTGCAT ATCTTTTGTT AAAATTATTT
39451 GCATGTATTT AATTTTTTAA TGTATTCTA AATAGAATTG ATTTTAGTCA
39501 TTAGTTTGAT GCAAAATACA GAAACACAAT CAATTTTAT ATTGACATTG
39551 TATCCTATGA CATTGTTAAA TTTACTTCTT AGTTCTGGAA TGTAAAAAA
39601 ATTTAAATAA TATCTATAT TAAAATTATT GTGTCTCTA AAATTAAGG
39651 TATTTTCTC TCTTCTTTC TTTCTTAACT CCATGACTTT ATTGTTGTT
39701 TGTTTGCTT TATAGCACTG GCTTGACTCT CCAGTACAGT GTTAAACAGA
39751 GGTGATAAAA GCCAATATCC TTGTGTTGTT CCCAATTTCA GGGAGAAGGA
39801 TTAGTTTTTC ATCATTTTAT ATGATATTGG CTGTAGACTT TCTGTAGATA
39851 CCCCTTATTA AATTGAAGAA GATTCTTTCA TTTATAGTTT GCTATGAGTA
39901 TTTATTGGA ATGATGTTA AATTTTGCCA CTGTATCTG AATTTAAGGC
39951 AATAATTTGC TTTTCTCTT TTATTCTCTT GCTGTGATAA GTTACATGGT
40001 TTATTTTGA ATGTTAAATT ATATTTACAT TCCTGGGATA AAACACACTT
40051 GATCAGATGT GTTATTCTAC TATATATTGC TGGATTGAT TTAGTAACAT
40101 TTTGCTTAAG ATGTTGTAT TTTGTTTCTG ATAGGTATT GGTCTATAAT
40151 TTTCTTTTAT TATAACATTT TTTCTCAGAT ATTTACATCA AAGTTATACT
40201 ACCCTAATAT CAGTAGTTGG GGAATGTTCT TTCCTCCTTT ATTTTCACAG
40251 TTATTATTTT ATCCTAAACT ATTTGATAGA ATTCAGTAGT GAAACCATCT
40301 GAACTTGGG ATTTCTATTG TGGCAGATTT TGTATTACTT TGACTTCTT
40351 AATAAATATA GAACTACTCA TACTTTCTTT TTAATAAATT TTACTTTAGG
40401 GCCGGGCGCG GTGGCTCAGC CCTGTAATCC CAGCTCTTTG GGAGGCCAAG
40451 GCAGGCGGAT CACGAGGTCA GTAGATCGAG ACCTTCCTGG CTAACACAGT
40501 GAAACCCCGT CTCTACTAAA AATAGAAAAA ATTAGCCGGG CATGGTGGCG
40551 GCGCCTGTA GTCCAGCTA CTCGGGAGGC TGAGGCAGGA GAATGGCGTG
40601 AACCCGGGAG GTGGAGCTTG CAGTGAGCCG AGATCATGCC ACTGCACTCC
40651 AGCCTGGGCC ACAGAGTGAG ACTCCGTCTT AAAAAAAAAA AAAATTATTT
40701 TAAGTTCTGG GATACATGTA CAGAATGTGC AGGTTTGTTA CACAGGTATA
40751 CATGTGCCAT GGTGGTTTGC TGTACCTATT AACCCATCAG AATTTCTATA
40801 TCATTTTATA TGTATGTTT CCAAGAACT TGACCATTTT ATTTAAAAATG
40851 TTGAAAATAT TGGCTCAAGG TTTTGTGTA TCTGCAGTGA TATTCCTGAT
40901 TTTATTCTG TTTGAAATTG TGTTTACTTT CTTTTATAC ATCTTAATAA
40951 GTGTTTATGA AATTTATAAA TTTTCCAAA TAACCAACTT TTATATTAAT
41001 TAATGTTCTC TATTGTTTGT GTGCTTTCCA TTACATCGAT TTCTGATCAT
41051 TATGATTTTC TTGCTTCTAA ATATTTTGCC ATAAGGTTCT ATGTATTAGT
41101 TCCATGCTGT ACTAGTGT TTGCAAAATG TCTGTATCAT TATCACTTTT
41151 CCGCCTAATC GTTCTAACAG TTATTGAGAA GGAAATGATA AAATATTTAA
41201 CTACGATTGT GGGTTTTTTT CTTTCAGTTC TGTCCAGGTT TGCTTCATGT
41251 AGTTTCAGTT AAAAAAAAAA TTTTACCAA AAACATGCGT ATTGTGATTG
41301 TTATATTCTT CTAATTAAC GATCCTTTGA TCATTATAAA CTATCCCTTT
41351 TATCTTTGGG GACACTTCTT GTATTAAGGC TTTTGTGCT GTTATTAATA
41401 TAACACATGT TCTTTTATTC GTGGTTTGCA TCATATATCT TTTTCTATT
41451 TTAATTGTGA ATTATTTGTA TTGATTTTAA ACTGTGGCTG GTGGACAACA
41501 AAGTACTGCT CTGTGAACA ACCTATAATC AGGTCTTTAA TCTGTCTGA
41551 CAACCTCTGA CTTTAAATG GAGTATTAC TTCATTAGA TTTAACTTA
41601 GTATTAATTT ACTTGACTTT GGATGTACTA TTTTCTCTT GTTTCTATA
41651 TGTCTATCT CATTTTATG TCCTCTGTTT TGCTTTCTT TCTTGCCTTC
41701 TACTGGGTTA ACTATATATT TTAGCATT TATTTAATT CTTCTATTG
41751 ACTTTTAGCT ATGTTTCTT GTATTATTAT TTTTCGTGGC TTCTCAAGGG
41801 ACTGCAATAT GAATACTTGA CTTATATCTA CTTAATTTAT GTAAGTGGAA
41851 ATAAAATACA TGAATTTTGC AGAAGTATTC CCATGTACTT CCCTGTAGTT
41901 TCTGCTGTTA TTGTTATATT TTTTGTACTT ACTTTATAG ATGTCAGGTT
41951 GTTATACGTG TCAGCTATAT ATATTAAAT ACGTGTGTAT GTGTGCATGC
42001 AACTCGGTT TTTTCAGTGT CTTTCTACTG AGCTCCTTGG ATTCTCCGTC
42051 ATGTACATAT AATTAAAAA TTAGGCAAGG ATTTAAGGGG AGTTTAGTCC
42101 CAAACTTTGG ACTAACTCC TCTGTTTCCA ACTACTTTAG CAGCCTCATA
42151 CTTTATTCTC TGACACCTCA AGCCAATAGC TCGGTTTTTT TTCTTTTCC
42201 AAGTTCATAC ATGTTATCTG CAGAATAGTT TGATATAAGT TATCACCAGA
42251 TCAGAGTTCC TCAAGTTGGA ATATTTGTT TTAATTTCTT AGCTGCTTTT
42301 GCAAAATTTT TCCCAAAAT ATGAATCTGA GCTCCTTTCA AGGTTTTTAT
42351 TAAAATATCT AGTCACACTG AACACTTTAG TGTATAATAG CCTTAATGTC
42401 ACTTGGTGAT GGGTAGATAG AAGAGGAGTT TACATTGCAA TAATATATAT
42451 GGCTTTAAAT TGATTATTAG ACATTTTGT TCTAAAAATC TTTTGATCCA
42501 AGTGTGGTGG CTCACACCTG TAATCACAGA GCTTTGGAAG GCTGAGGTGG

FIGURE 3L

42551 GAGGATCTTT TGAGCCTAGG AGTTTGAGAA CAGCCTTGGC AATGTAGCGA
42601 GATCCCGTTA GTACAAAAAA AAAAATTAGC CTAGAGTGGT GGTGTGTGCC
42651 TGTAAGTTCCA CCTACTCAGG AGGCTGAGGT GGAGGATGTC TTAAGCCCAG
42701 ATGTTTAAAG TTACACTGAG CTATGAAGGT ACCACTGCAC TCCAGCCTGG
42751 GCAACAAAAT GGCACCCTCA TCCCTGTAAT CCCAGCACCT TGGGAGGCCA
42801 GGGTGGGCAG ATCTCCAGGT CAGGATTTTC AGACCAGCCT GGCCCAACATG
42851 GTGAAACCCT GTCTCTACTA AAAATACAAA ATTAGTCAGG TGTGGTGGCA
42901 CATGCCCTGA ATCCAGCTG CTCAGGAGGG TGAGGTGGGA CAATTGGTTG
42951 AAATCAGGAG GCAGAGGTTG CAGTGAGCCA AGATCATGCC ATTGCACTCC
43001 AGCCTGGGCA ACAAGAGCGA AACCCTATCT CAAAAAAGG AAAAAAAG
43051 AAAAAAGAAA AAGAAAAAGA AAAGAAAATC TTTTGGCAAT CAGAGAGTTT
43101 TCTGTTGGTT GCTTTATACC ACTGAGGCC ATGTCCCAA CCTCACACCA
43151 TCCTTTGAGC CTTTGTCTC ATTGTTCTC CTTCATCTC TTCCTTCTCT
43201 CTGCTTTCT CATATGGGCT CCTGAACAAT CCAATTCTT TCTTTATTCT
43251 TTCTTATGGA TATTTTCCCA AAGCTTACAG TCAGAACTCC TTGTGTATAT
43301 TTTAATCAAT AAAGTTNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
43351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
43401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
43451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
43501 NNNNNNNNNN NNNNNNNNNN NNTATTTTGG AAATCTGTCC ATCCATCCAT
43551 TCATCTATCC GTCTGTTGAT TTGTTCACTG ATTCACATT TTGCTAAGCA
43601 AGTACTTATT AAATATCAAT GTGTGCCAGG CATTATATGC TTATCTGTTT
43651 CTCTGACCT TTTTTTTTTT CCTATTCTAC TTCCTGTAC ATTAACATT
43701 GATATAGACT CAATTCTTCA TCTCTGGTGT TTTGATAATA TGAGTACTCC
43751 TTTCAAATGT TCATTTACTC TCATGATTTT AATTACTTAT AGATACAGGA
43801 ATTCTCCCAA ATTCCTTTAC GTGACCCATT ATGCTAACAC AAACCTCTCC
43851 TGTGATAACT CTGTTTATCC TGCTAACAA ATATGAAGCT AACATTTTAT
43901 TTCTCATAC TCATTCTGG GTAAATCTCC ACAAGCCAGT ATGTCTTTCT
43951 AATTTCTTCG TCACTCTCAA TGGTTCAATT TAGTCTCCAG GTGTTATAGG
44001 AGTGGTCTCA ATAGATAATT AAGTTGGCTT TCTAATTAGT CTCTAAGAA
44051 CTGTTTCAGA TAACTATGT AAAATCAAAG TTGTCATTTT TGATAAATAT
44101 TCTCATGAGA TGACTTACTG CATGCAGCTG TCAAACTAA TGAATTTATA
44151 AATCAAGCCA GCTCATTTTG CCTTTGTATT AGTCTGTTCT CACACTGCTA
44201 TGAAGAAATA GCTAAGACTG GGCAATTAT ATATGAAAGA AGTTAAGTG
44251 ACTCACAGTT CAGCATGACT GGGGAGGCCT CAGGAACTT ACAGTCATGG
44301 CAAAAAGGGA ACCAAACACC TCCTTCTTCA CATGGCAGCA GCAAGGAAAA
44351 GTATGAGTGC CCATTGAAGG GGCGAGCCCC TTATAAACT ATCAGATCTT
44401 GTGAGACCTA ACTCACTATC ATGAGAACAG GATGGGGGAA ACCACACCCA
44451 TGATTCAATT ATCTTTCCT GGTCCCTCCC ATGACATATG GGGATTATGG
44501 GAACATCAAT TCAAGATGAG ATTTGGGTGG GGACACAGCC AAACCATATT
44551 GGCTCCAAA CAGAATATGT ATAACATAT ATATAACTAG CTTTCCTTGT
44601 AACGATCCCT AAAAAATGAC TTTTCTTTG GAAGTTTAT TGAGAAATTT
44651 TTTAAAGGTA AGTGTTCAC AGTATGTAAT TTTAAGACTA AAATATAGC
44701 CATGGTTTAT ATTTGGGGCC CCAATTGTCC AACTATACAT GCATGGGAAC
44751 AGATACAAAA CAATTTTAAA ATATCTTACT CCTATTTCAT GCACATTGAA
44801 TACATTTATA AGACTAATT GGACATTAG TATGAATGGG TCAGTCCATA
44851 TTCTCAGCTT TGTAAGTAGCA CTCAAATCC TGTTTGTGTT TCATAACTTG
44901 ATAAATACTC CAAATTTTCT CTGGATTAG CCAGGCTACC AGAGAGAGTT
44951 GCACATGAAC GGTATACTTA CAATCTCTGA AGACATAGTT TTAATAAAAC
45001 ATATTGAGA ATTATTCCAC CTACGTACTC AGAGTGACGT TGTAAGAATG
45051 GGAAATTTT TTTTGTGGAT TTTTAAAT TTTATTTT ATTATACTTT
45101 AAGTTTATAG GTACATGTGC ACAACGTGCA GGTGTGTAC ATATGTATAC
45151 ATGTGCCATG TTGGTGTGCT GCACCCATTA ACTTGTCAAT TAGCATTAGG
45201 TATATCTCCT AATGCTATCC CTCCCCCTC CCCCCACCC ACAACAGGCC
45251 CCGGTGTGTG ACGTTCGCT TCCTGTGTCC ATGTGTTCTC ATTGTTCACT
45301 TCCCACCTAT GAGTGAGAAC ATGGGGTGT TGGTTTTTAA AATAAATTTT
45351 TTTCCCATC CCAAAAAATC AGAATGGGAA AAAATTTTAA TTTTATTTTA
45401 TTTATTATT TTTTATGAGA TGGAGTCTCA CTCTGTCGCC CGGGCTGGAG
45451 TGCAGTGGCG CGATCTGGGC TCACTGCAAG CTCCGCTCC CGGGTTCATG
45501 CCATTCTCCT GCCTCAGCCT CCTGAGTAGC TGGGGCTGCA GGCGCTGCC
45551 ACTACGCCCG GCTAATTTT TGTGTATT TTAGTAGAGA CGAGGTTCCTA
45601 CCGTGTAGC CAGGATGGTC TGGATCTCGT GACCTCGTGA TCCGCCGCC
45651 TTGGCTCTCC AAAGTGCTGG GATTACAGGC CTGAGCCACC GCACCGGCC
45701 AAGAAATGGA AAAATTAAAC ATACTTAGTA TTTACTGTGT ATGGATGTTG
45751 TCGAGGACAT TGCTTATTAA ATTATGGTAC CCTCTTTATG GGTTTTTCCTA
45801 GAAGAAATGT ATCTTGGTT TCAGTATCAG AGATTATGT ATTTTGTTC
45851 ATTTAATTTA TCTTTATTTG CGATAACAAA GATTTACTAT CTGCTTTTC
45901 CCTTTATTTT ATTTATTTGT TATAAAGAGC CAAATTTATA ATTTACTTCT
45951 AGGAAGTCTA CAGTGTGTAT TTTGTCAGTT AATCTAATC CTGGGTTCAT
46001 TCCATTTGTT TTACCCCTAT TTTCTCTGTG CTCAATATAC CATCATATCC
46051 TGTCATATT TCTTTACATT TTTCTTTAGC TCTACTCCTA ATTATTTTAA

FIGURE 3M

46101 ACCTACCAGA TCATTGTAAT CTATGTTGTG CTTTATATGT AAAATATCGA
 46151 ACAAGTTTTT ATCAAACTTG CCTATTCCTA ATAACAAGTG ATATGAAGGC
 46201 TCAGACTTTT AAGTTTATAT GTCACTAATT AATCTCTGTC TGTGTTTTCT
 46251 CTGTACACCTA CTGTAGTCAC CTAAACTGCT TTCAAACCTT CACTGCCTTT
 46301 CAATAACACC AAACCTGATA ATCCCCACA CTTTTTCTT ATGACTGCCT
 46351 TACACTATTT TCCTTCAGCC TAAGATTTTT CCCAGCCCTT GACAAACATT
 46401 TTGTTGCCAC TTATGTATCT CTCCCCGTAC TCAACCCACT GAATCCTTTT
 46451 TCTTTCACAT CTTTACTAAT CCTCAGTTGT TCCTTCAAAT TAGAGCTCCC
 46501 AGATCTTCTT CTCTGTCCTG TTGCATTTAC CTCTTTGTAG TTATTTCTAT
 46551 TAACTAAAAA ATTTTTTCATC TATGTATGAA AAGGTTCTTA TACATTGACT
 46601 TGTATCCTGC CCACATCATT CAATGTGAAT GTTCAATAAA TGCTATTGAT
 46651 TAAATTCAGG CTAGTGCAAA ATTTGTAGCT GGTATGCTGA AATATGCTTT
 46701 GAACCTAACT TTGAAGGTAT TTCCATTTTT GTATTGATCC ATACTATATT
 46751 AATGTTAGCA AATTTTACTT TGTGTATGTT TAAATTATCT ATCTGTATGT
 46801 TGTGTTTCTA AAAGGATAGT AGATTATTTA AAATTTCTAG AGACAAAAAT
 46851 ATTCTTAAAC TTGGGAAGAT TGGGTTGATA ATTTTGTATG TTTTATAAAT
 46901 ATAATTCACA AATATAACTT TTCAGACATC TGTTTGTCTT AAAAGAGAGT
 46951 ACATCTGTTT CTGAAAAATA AAAATATATA GTCATAAATA AACAAATTTAA
 47001 ACTTGGTCAT CCAACTTAGT GTACTTATCC AGGTCAATGA GAAGTCAATA
 47051 CAAAACCTACC TTCACAATCC TATCAGGAGA GTTTGGCAAT TTCTAATAAC
 47101 TGATATTGAG AAGTTTATAG AATAATTACA TTTTATACAT GTATTTCATCT
 47151 TCTAAGTAGA ATTTACTGGT CAGTAAAAAC TCTCATGCAT TTAAACCTAT
 47201 AACAAATTTT TCGTTATTTA GATCTACAGA CCTTAATTTT AACCATGATG
 47251 AAAGTATTTT AGTGATAAGA ATAATTTATG AATAAAAAATG TAATTTAGTG
 47301 AATACCTTGG CAGTTAATGT TGATCGCTTC ATCAGAGTTC AGTCATGTTT
 47351 AGAAAATCTA AGCAAGCTGT GTGATTACTC CAGGAAGCAT GGAATGATGT
 47401 GTTCAAAATTA TGAATACTTG TGAGTAGAAA AAGTTTGAGG TTTTATGTC
 47451 TTCTTAAAGA ATGGAAATCT GATTCTCCAT GCTGAAATGA GTGTAATCCT
 47501 TTTTCTATCT GTAATTCAT AGGGCAGTTG CCTTGAAATA GTCTAGTTCA
 47551 GCACACAGTT CATCAAAGAG AAGATACTGG ATATAAATGA GGGTTACTGC
 47601 TGTCACACTT TGAATACTTC TGAGGTAGCC TTGTTTAAAA AATGTCTAC
 47651 AAGTTATACC ATATATTTCA CCTCAGATCA GATTCATTTT TGGTTTATCT
 47701 TTCTAAATAC ATTTGAGTGA AAATGTGGAC TAGATTTTGT ACCACATGAA
 47751 AACAAAAGGC TGTTCATATG AACCATCATT TATTTCCACA GTCAACAAAC
 47801 ACTTATGAGT GCCAGTATGT TCCAGTGTCC CATCACTGTG CCTGTCACAT
 47851 AATAGGAGGC TGAATTTGTC ATTATGTTTC CTATAGCCAG GTTACAAATA
 47901 ACTCTTGCTT GGATTTAGTG GTTTTCTTTT TTAAGACCTT TTCTTCTCTG
 47951 AAAGCTTAAT TGGAGAATAC TAGAGTCTGT GAACGAATAT TGATCTGCTG
 48001 AAAATTTTTA CTGTGTAGCA AAATTTGCTA GTAACAAACA CCAGCTATCC
 48051 TAAAATCTGA ACATTGGAGG AAAAAATAGT TGATCATAGA GGCATGGGCA
 48101 TCTAGTCATC CCTCCAGATG GGATTAGCAA AGGGCAGCCT CTTCTGCCTT
 48151 CTCTAGTTCA TTAGCTAGTG AATATTTCCC TCTCATTTCC AGTGGTTTAG
 48201 CAAACTCTAG AGGTGAGAAA TTGAAACATG GGAAGGTAA CTGGTAGTAG
 48251 ATCTAAAAAA GAATAAATAA AAGAAGGAAA GCATTTGTAC ACTGATTCTT
 48301 ATGAGGAAAG AGTAGAGTGT AAGATTTTAA TGAAACAAA AGTCAATATA
 48351 AAAATTTTCA AGGCCAGGTG CCATGGCGCA TGCTTGTGAT CCTAGCACTT
 48401 TGGGAGGCTG AGGTGGGCAG ATCAGTTGAG CCCAGGAGTT CAAGACCAGC
 48451 CTGGGTAACA TGGCGCAACT CCATCTCTAC AAAAAGTACG AAATTAGTTG
 48501 GGTGTGATGG CACACGCCTG TGATTCCAGC TACCCGAGAG ACTGGGTTGG
 48551 GAGGGTCATA TGAGCCTGGG AGGTTGAGGC TGCAATGAGC CATGATTGTG
 48601 CCACTGCATT CCAGCCTCAG CAACAGAGTA AGACTCTGTC TCAAGAAAAA
 48651 AAAAGTAAAA ATTTCCACAT AATAAAAACG ATCATCAGCA AAATAAAAAG
 48701 ACAAATAACA GATTTGGAAA ATATATCTTC ATCAAGGATC ACAAAGGTT
 48751 TATATTAAAG GCTTAAATAA ATAAATAGCA AAGCCATACA CCCAATAGAA
 48801 AAAAAAGTAG AAAAAATACA AATGATAGTT TATGAAAAAG GAAATTAAAG
 48851 AGAGAGAAGT GCAATAAGCT TCACACTGAA ACAGAATTTT TTCCCTCTGA
 48901 AACTTTTATT GCATACTCTG TTGGCTTGGG GAACAGGCAT TCTCATGCAT
 48951 GTTGACAGGA GTAGGTATTG GTAAAACCTT TCTGGAGTGT GATTTAGCAA
 49001 TGTCTACCAA TGCTACAAAT ATGCATATGT TTTACCTAGC AACGATTATC
 49051 CTACAGATTT ACTCACACAT ATGTGTGGAA TATGAAAGCA TAGGCTTGTA
 49101 CATTACAGCT TGTTTACTGC AAATATTGGA CACAGCTTAA TATCATTTCA
 49151 TAGAGGCTGG TAAATCAAAA TTCGATATAT CCATTTCAAT GTGCTTACTC
 49201 CATACAACTC CAACACTGA AGAAAAAGGC AAAATATATC CAAAGCATAT
 49251 ATATAGTGAC CCTAAATCCC AGTTTCCAGG GCAGTCTGGG TTTATGCTTG
 49301 CTGTGCTGGC ATTTTATCCA ATAGACATTG CCTTTTACTC TCAAAAGTGA
 49351 CCTGTCTGTA TAACAAATAA TTTGCTGCAA TGAGGTGAAT GTTTATTTCC
 49401 CCCCTAGAAAT CATATGTTGT AGTCCTAACT CCCTGTGTGA TGCTATTAGA
 49451 AGGTGAGGCC TTTAGAGGT AATTAGGTCA TTAGGGTAGA ACCCTCCATG
 49501 AATGGGATTA ATGCCCTTAT AAAAGAAGT CAGAGAGCTC TTTTGCCCTC
 49551 TTTCTGCTAT ACAAGGACAC AATAAGAAGC CAGCAGTCTG GAACCAGGAG
 49601 GCTGGTTCTC ACCAGAAACC TGCCATGCTG GCACCTCAT CTGACTTTCA

FIGURE 3N

49651 GTTCCAGAAC GTTGAGAAAT AAATTTCTGT TGTTTGTAAT TCACTCAGTC
49701 TATAGTAAC TGCTACAGCA GCCAACTAA GACAGTCACT CTAGATATAT
49751 TCTTTGGGAG TGAGAGAAGG GACTGGGAGG AAGAAGAGAG TCGGATATGA
49801 GGTTAGATGA AAAGAAAGGG AAGGCTGCAC TCCAGCCTGT GCAACAGAGT
49851 GAGACCTTGT CAAAACAAAA CAAAAACAAA AACAAAAACA AAACAAAAAA
49901 AACTTTTCAA GTATATCACT GTGCTTCAGA TAAAGCTAAA AGTCATATAT
49951 TTGGTTTAAAG GACTCAGTTT AATGTGATT CACTTACATT GCCTACTTCG
50001 CCCCTTCCCA TTCATCTCCT TGTAGACCCA GCAGCCTTCA TTAAGTGTTT
50051 TCAATGTGTG ACACTCTTCT TCTTCAGGGT CTTAACACCT TCACACATCC
50101 TGATATTTT TATCTGTGAA GCTTCTTCTT ATCCTTCAGG TCTCTAATTA
50151 AATTATCCTT CACCAGGAAA GCCAAATAAA GTCCCTGTG ATACCCTCGA
50201 TTCATTTGCT CACACATTCA AAAAACATTT ATTGAATCAC CATTTTGTTT
50251 CATTCAAGTAG TCTAGACTCT GAGAGAGAAA ATCTGTTATG TACATTGACA
50301 TTTTATGTGT TTATAACCTA CAAATAAACA TCTATTTTGT AGTGATTTT
50351 TTCAATCTT TATTGAGAT GGATGCGGAA GCAAATCTT TTTGAATCTT
50401 TTATATATAA TGTTGGGGTG ATGTGGAGGT GAAAGTAGAT TAGGCCTCTT
50451 TGGAGTGGGT TTTCAGTGCA GAGCTGAGAT TTATAGGAAA GTAAATATCA
50501 GTTCAAAATA ATGCAGGCTA TACAACTAA TAGAGCTATC TGAATGAA
50551 TTTTAAATAA TACTACCCTT GAGATGTTGA GTTCCCTGT CTCTATGTAT
50601 GTAAGCAGAG GCTGGGTAAG TAGTGATTGC TCATTTTGTA GGGGGAGGTT
50651 TGTATTGGTC TTCTATTGCT GTGTAACAAA TTATCACAAA CTTAGTGGCT
50701 TAAAACAATA CCCATTTATT AGCTCATAGT TCTATAGGTC AGAAGTCCAG
50751 GCGTGTGTG TCTAGGTTT CTACTTATTC TCACAAGCTG AAGTCAACTT
50801 GTCAGTCAAC ATTTTCTTGT GTAACCTAGG GTCTCTTTC AGGTTTACGT
50851 GGTGTGTGTA GAATTTAGTT CCTTGCACTC ACAGGATTGA GAGCCCTTC
50901 CCTGGCTGGC TTTTAGCTAA GGGCTTCTCT CAGCTCCCAA AGATGTTCTG
50951 TGTTCTTAT CATGCAGCTC CCTCCTTCTT GAGAGCCAA AATAGAGAAA
51001 TTTTGTACG TTGAATCCAT CTCTTTAAAG CTTTGACTTC CTTTCTGAA
51051 AACGGCCAAA AATACTATCC TCCTTTTAGA GGGCTCAGGT TATAAGGTCA
51101 GGTTCACTGG ATAGCTCTCT ATTTTAAAGT AAACGTATTA AGATTCTTAG
51151 TTACAGCAGC AACATAGCTT TCCATCTGTA CCTAGATCAG TGTGTGGTTG
51201 AGTAAGTGA AGAATCTGTT TTTGTACAGG GACCGGGAAT CTTGAGGGAT
51251 ATCTGCAGAC ACAAAGGTCA GACAAAGAGA CAAGATGACC AAGATGATCT
51301 CTCATTTTCA AATCTGAGA TTACGTGATT TTTCTCATTT ATTTGCCTGT
51351 TCTTATGAT TCAGTCGCCA AAATATATCT TAAAACTGA CTTCTGTACT
51401 GTTGCTATCA CCTAATTTCT TCTTCTCTGG ACAAATCAAG TAGTCTCTGA
51451 ATTTCTCCCT TTTCTGTTT TGCAATTACC AGACTGTAGT TGATAAAATG
51501 TACCTCTGGA CATACTGTGA CATTTTATAT AGCTTTCAAT TGCCTGACAA
51551 GCTATCTATA TGTCTCTCTG ACACAGTAAG TCCCCAAGCT ATTGTGCAGT
51601 CTTGCTGTTT GTTATTGCCG ACATGAATTA CAAGCTGCAA TTAAACTTGT
51651 CTTAGCTCAC ATCACCCTCT CTTCCATGAT CTCCACTTTT ACAATCAGTG
51701 AAATTCATC TCATGTGCCA TCTCTTCTCT AAAACATTT TCTGAACACC
51751 CACGTCAATC AATACATCT GATTTATATT AGAATATTTT GAAATGTAT
51801 CTTATGTTCA GATGATCTGA GTTCAAATTT AGTGACTGAG GCATTTGAAA
51851 AAATTATGAA AATTCTAAAA CTTCTTCTCT TATAAATTTA CATTTTTTTT
51901 CCCTAAAGAT AGTGTTTTCT CTAATTGCTT TTCTTCATGA TAGGTAAAGA
51951 TAAAAACAGAA TGTGTTGTAA ATAGTGTGCC AGTTTGGTA AATATATATA
52001 TATATATAGT AAATAAGCAA TAGATCTGTA AATAATTCGA TAAAAATTTA
52051 AGATGAAATC CAAAATTTTA ACTGAAGTCC AGACCTCTCT CTACAGAAATC
52101 CAGACTCAAG CTTCTATCTA GTATTTGATT TCTCCTTCTG GGTGTCTGAG
52151 AGGAATTTCA AAGTTAACCT ACTCAAAAGA AATTGTTAAT CTTCTCCTCC
52201 AAAGCTTACC CCTCTTACGG TCACCCACAT CTTGATTAAT AGTGACTTCA
52251 TCTTTTTATT TGCTCAATCC ATAAACCTTA GGGCATTTTT TATTCTCTCT
52301 TTTCTCTGAT ATTTACATA CCACACATCA GCAAACCTG CCAGCTCTCC
52351 TTCACATTAT ATTCAGGAGC TGAATGTTTC TCTTCACTTC TGCCACTACC
52401 ACCTTGACC AGGCCACTGT GATCTCTTGT GTTGACATTG CAGTTGCCTG
52451 CTAATTACTC TCCAGCCTTG TTACCCTTTA GTCTGTTCTC AACACAGTAG
52501 CTAGAGTGAT TCTGTGAAAG AGAGAGCCTG CCACTTCTCT GCTCAAATGA
52551 AAGCCATGAC AATGTCCTCT AGTGTCATGT ACTGGTAGCT TGTACCAGTC
52601 ACTCAGTCCT TCTGTATTAT CTCCAAATAT ACCAGGCATG CCTCCAATA
52651 TACAGTTTCC TCTGCTTCAA ATTTCTCTTT CTGAAATATT GACATGGCTA
52701 GGTCCCCTAC CTACATATGG AATTTAGTAT CTTCTTTTTC TTTTTTTTTT
52751 TATTATTATA CTTTAAGTTT TAGGGTACAT GTGCACATTG TGCAGGTTAG
52801 TTACATATGT ATACATGTGC CATGCTGGTG CGCTGCACCC ACTAACTCGT
52851 CATCTAGCAT TAGGTATATC TCCCAATGCT ATCCCTCCCC CCTCCCCCA
52901 CCCCACAACA GTCCCCAGAG TGTGATGTTT CCCTTCTGT GTCCATGTGA
52951 TCTCATGTG TATGTTCCAC CTATGAGTGA GAATATGTGG TGTGTGGTTT
53001 TTTGTCTCT GCGATAGTTT ACTGAGAATG ATGATTTCCA ATTTACCCA
53051 TGTCCTTACA AAGGACATGA ACTCATCATT TTTTATGGAT GCATAGTATT
53101 CCATGGTGTA TATGTGCCAC ATTTTCTTAA TCCAGTCTAT CATGTGTGGA
53151 CATTTGGGTT GGTTCCAAGT CTTTGCTATC GTGAATAATG CCGCAATAAA

FIGURE 30

53201	CACACAAGAA	AAAAACAAAC	AACCCCCATC	AAAAAGTGGG	CGAAGGACAT
53251	GAACAGACAC	TTCTCAAAAG	AAGACATTTA	TGCAGCCAAA	AGACACATGA
53301	AAAAATGCTC	ATCATCACTG	GCCATCAGAG	AAATGCAAAAT	CAAAACCACA
53351	ATGAGATACC	ATCTCACACC	AGTTAGAATG	GCAATCATT	AAAAGTCAGG
53401	AAACAACAGG	TGCTGGAGAG	GATGTGGAGA	AATAGGAACA	CTTTTACACT
53451	GTTGGTGGGA	CTGTAAACTA	GTTCAACCAT	TGTGGAAGTC	AGTGTGGCGA
53501	TTCCTCAGGG	ATCTAGAACT	GGAAATACCA	TTTGACCCAG	CCATCCCATT
53551	ACTGGGTATA	TACCCAAAGG	ACTATAAATC	ATGCTGCTAT	AAAGGAATTT
53601	AGTATCTTCT	AATCCCTTCT	CTGATTACCT	AATTTAAATT	TTCAATATCC
53651	CTGAAACTCT	CCTTCTTCTC	ATTCTTCTTT	TTCTCCGCAA	CTCTGATCAT
53701	CATCCAAAAC	ACTACAGTTG	GCCCTCCAAA	TCCATGTGTT	CTGCATCCGT
53751	GGATTCAATC	AACTACAGCT	GGAAAATATA	CAAAACCAAA	ATGTGTCTGT
53801	ACCCACATG	CCCAGACTTT	TATTTCTTGG	CATTATCTC	TAAACAGTAC
53851	AACAGCTATT	TATAGAGCAT	TTACATTGTG	TAGGTATTG	TAAATAACCT
53901	AGAGATTATT	TGAATTATAT	GAGAAGATGT	GTGTAGTTTA	TATGCAGATA
53951	CTACACCATT	TTATATAAGG	AATTTGAACG	TCTTCTGATT	TTGTTCTCCG
54001	TGGAAGGTCT	GGGAGCCAGT	ACCCTGTGGA	TACAAAAGGT	GACTATGTAC
54051	AATACTTATT	GATACTTTTA	TGTTTACAG	CTCCCTGAA	TGTAAATTTT
54101	CAGGGGCAGG	AATTTTGTTC	TGTTTTGTTC	ATTGTATTTT	CAGCACCTAT
54151	AATCCTACCT	GTACATATTA	GATGCTCTTA	GATATTTATT	GAATGTTGAA
54201	TTAATATATC	TTTAGAGATC	AATGAGCTTT	CTAAATATTT	ATTAATTTTC
54251	TTATTTTAAA	ATGTGAATAT	TAATATACAG	TTCGCATTAT	GTAATTTTCA
54301	CATGTCTATC	TTTGATTCT	CTTTATCTCC	ATCTTCTTAA	CAAGGCCCGT
54351	TGAAGATATA	CAAAGAAAGG	CATGGTTAAG	AAGAGTTCCA	ATATCACTTA
54401	ATTGATTGCT	CTTTCTTATT	TCTAACCAT	ACATGTGTAT	ATTACTTGCC
54451	CAATAAACTG	TCTCTGAAA	ACAGGACATG	AGCTTTATTG	TATCCTGAAT
54501	CCCTAACACC	AGGCTCAGAG	CCTGACACAT	GGTATGCATT	TGGCAAACT
54551	GTAGTTAGTG	TGGAAGCAAA	TAAATGACTC	CAAGCAGGAC	TACATGTTAA
54601	TTCTAAATAT	ACATGAGATA	AAATAAAAAA	AAATAGATGA	ATTATATACA
54651	TTAAAACTGT	CAGTAATATT	GTTTATTTAA	AATTGTTTTA	TAATCAACAT
54701	TTANNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
54751	NNNTAATGCC	CTTGACCCAG	GCCCACATTT	TTCTTCATA	TTTAGAGGTT
54801	CTGTTGCTTT	TAAGCCCAAC	TTTACAACCT	TTTCAGTGAC	TTCAAACCTA
54851	CACACACACA	CGTGTGACCA	CAATAACCCCT	GATTGATCTG	TCTGCAAGTC
54901	GTTTTTCAGC	TGTGTGTTTT	CAACTGCACA	AAATCTGAG	GCAAAGAAAT
54951	ATCAAGCATT	CAACTCCCAG	CTTGAGATGG	GAAGAAGAAA	ATACAGAGAA
55001	GAAACACAAA	TACTTGAAAT	TGTTTTGCCA	TCTATACATC	TTTCAGGACT
55051	TTAAGTGCTT	TTCCATACAA	ACCACTAAAT	GTATAGGTAA	AGATTGCTCT
55101	TGCAACTTAG	TGTTTATGTT	TATAGCTAAC	TGGTTGCCCT	GCTTGCTTGG
55151	AGAATATCAT	TAACCATAAT	TAAGTAAAAA	ATGTATATTC	CTTATCCTGA
55201	ACTCTGTTTA	CATAGAATTG	TGATGGTTAC	TATGCAACAT	AAATAAGTTG
55251	CAAATCAAGT	CTGCAAGCC	AGAGCTCTGG	GAAATGGCTG	CATTCTCTGA
55301	AATGCCATTT	CTGCCCCAGC	CCTCCAGAGC	AAATTCAGG	TTTGCCAGGC
55351	CACCCATCCC	ATATAAATCC	TTCAGATATA	GGCCTTATGT	TATCATCTTC
55401	CTATCTTGAC	TGAGACTCTT	TAAAGGGGAT	TCCTTTCAAA	TCCAAATTAC
55451	ATATTCTTAA	ACATTTTGA	TACTTATTAG	TATAGTAACA	TACCTACACA
55501	CACACACATA	GATTTTCAGT	GACAAATACC	ATGTTAGTAC	TTATAGATAG
55551	TGAAATACAC	TTTGATCTAG	AGGGCTTTAT	TTTCTAGGCC	ACCAATTGTG
55601	TCTCCTGTTA	CAATTTCCCA	GAGTATCTGG	CATAATGTCT	GTAATAGTAA
55651	ATGTTCAATA	AATGTTTGTT	AATATAATTT	GACATTTGAG	GTAGAATCCT
55701	GACAACTCAG	ACTTTGACAC	AATTGTCCAA	CCTTTTCTCT	TTCTGGCACT
55751	TTGACACTTG	GTTTCTGTAA	GATCTACCCT	TCTGTTTTTT	CTCCTACCTT
55801	CCTGGTAGCT	CCGTCTCCGT	CCTCTTGCT	GAATTATTCT	CAGCAAATAA
55851	TTGTTTTTTA	ACTGTAAGCA	TTGGAGAGAT	GAGAGAGCTG	TACTTGGCCC
55901	TTTTCTCTTC	TTTATCAGCA	CACAACCNNN	NNNNNNNNNN	NNNNNNNNNN
55951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN

FIGURE 3P

56751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
56951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
57951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
58001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
58051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
58101	TGCCGTGGCC	TCCACAGTG	CTGAGATTC	GGGCATGAGC	TACCATCCCA
58151	CGCATATTTT	CTTATGTCT	AGAATAGTTC	CCAGTACCAG	TAGATACTCT
58201	ATAAATATTC	CCTGAATGAC	AGAAATTGTA	TTCATTAAGT	TCTAGTGGGT
58251	AGGACAAAAC	AGATTGTTTT	CCAGTGCAGG	TGATGATAAG	GATGACGATA
58301	CTATAACAAA	GATAGCAAAA	ATATAGAAAA	AATTCAGTTT	ACTTTGGGGT
58351	TAGTCAGTAG	GTATGGTTAT	TTTGAACCTG	CTGATTTTGT	CAAGAAATAG
58401	CTATTCTAAT	ATACTAGAA	AACAGAAATA	AATAAATGCC	CAGAGAACAA
58451	AACCAATAAC	ATCAGTAGCC	TAGATCTGGC	TTGTGGACAG	CTGATTTGTA
58501	ACCTTTGGTT	AAATTATGCC	TGTGCCTTTG	TGCCTGCTGC	CACTAAGAGT
58551	TCCTATCTCT	AGTATCTCAC	TTGGGGAGTA	CCTGCTTCTA	ATTGCCACAC
58601	TGAGCCAGGA	AGTGAACCTT	TTAAATGCAC	AGTCTCTTGC	AAGCACACTT
58651	GACACTATTA	TACAAGATGT	TTAATTAGCA	TAAAACAACA	TATAACATGA
58701	TCAGTTCAGA	AGTTGGTAAA	TGAAACTGAA	AAGTTGGATT	TCTAAATAAT
58751	CCTACATTCT	CAAGTCTTTC	CACTTGAATA	TCATTCTTTC	CACCCATTAT
58801	CCTCCACTTC	TTACCCCTTT	TTAAGTTCTA	TGGCCATATT	TTATTTCCAG
58851	GAGACACAGG	GGAAATGGTC	TTTCTACCAC	TGTGATTAGG	AGAGAAAGAT
58901	GAAAAGATTT	ATATTTTTC	ACTTCGTGAT	AACAAACATA	TGATTGCATT
58951	CTCAAACTC	ATAGCTTTTC	AACTAAGTAG	TCATAAGTGG	TTGAGGATAA
59001	TTCTTTAAAT	TTTGACGATG	AGTTGGTTAC	TCGTCTTTTA	GTTCACAGAA
59051	TGGAGGAAAT	TTTGCTTCC	AATGGAATAG	AAGACATTTT	TCTAATGATA
59101	AATATTGTAC	AATTGAATTT	CCAAATTTCA	TAATTTATAC	ATCAAAATAA
59151	AAGTTCTATT	TATTATATTA	AGTCAGGAAG	AGATAATTTG	AGATTATATG
59201	GGGAAC TGCA	TATATTATTG	CAACATAATA	TATATGGTGA	AATAACATAA
59251	GAATAAAAGA	AATTATAACA	GTTAAGTAAC	GGAAGTCTTG	AAGAGCAATA
59301	ATCCTTTTAA	TATTA AAAAT	AAGGCATTCA	TAGATGTTGC	TTCTGCATAC
59351	CAAAGATGAA	AATATAATGG	CCATGTTGCA	AACTCAAAAA	ATAATTTGGA
59401	TGAAGAATAT	TAATAAGTTT	TGTATTATGT	ATAATTCACT	TAAAAATGTG
59451	GCATGAGTCA	TGTGGTGGCT	CATGCCTGTA	ATCCCAGCAC	TTTGGGAGGC
59501	TGATGCGGGC	GGATCATTTG	AGGTCAGGAA	TTTGAAATCA	GCCTTTCCAA
59551	CATGGTGAAA	CCCTGTCTCT	TCTAAAAATA	CAAAAAATTA	TCCGAACATG
59601	GTGGTGGGCA	CCTGTAATCC	CAACTCCTTG	GGAGGCTGAG	GGAGGAGAAT
59651	TGCTTGGAAC	CGGGAGGTGG	AGCTTGCAAT	GAGCCAAGAT	TGTGCCACTG
59701	CACTCTAGCC	TGGGTTACAA	AGCCAGACTC	CATCTCAAAA	ATAAAATAAA
59751	AATGCAATAT	GTGTTTCAT	GATATAAAAT	AAAAATAATA	CTCTTTCTCT
59801	GAATTAGAGA	AAAGACTAAA	CAACAATATA	AAATAGTACA	AAATAACTAT
59851	CTCAGAGAAC	TGCATTTTAT	CCTAATGACA	TAAAGTTGTA	CTCAAGCACT
59901	TACTAATATA	ACATCTTGTC	AAAACCTGGA	TCTTCTCTAT	AAAGAGTTAT
59951	TGATTAATGG	GTAGTTTGAA	ATCAAATGT	TTAAATTTG	AGTAACTCCA
60001	ATAAAAGACC	ACCTAGTTTT	AATAATAAAT	ATTATAAAAG	TTTCTACAAT
60051	GGATTATATA	ATCAGAAAAC	ATGTTATCAT	TAACTATCTG	AGCCCATAAC
60101	AAAGAGCATC	AAAATTGAAG	ATCAGGAAGA	AAAGTCAGAA	TGCAAGCTGA
60151	GATTTAAATT	GGATTACCCT	GTGAATCTGA	GTGTACACCT	GTAAAACAGA
60201	ATAAATAAGG	GAAACAATAT	TCAACCAACT	CAAGCTAACC	ATTCTTTCTC
60251	TCACATGCTC	TCACCTAGAT	CATTGAAGCC	AAATTGCTTT	TGTCTCAAC

FIGURE 3Q

60301 TAATCCGTAT AATAGCCATA ATCCTACTGC ATGCTGAGAG TGTATAGATA
60351 CAAATATAAG CATAAAAATT TAAAAAATG GCAGAAATAT TTACCTTGAA
60401 ACATTACAGT CATGCCAAAT ATTTTACTCA TCTATTTTTC TGATTATCCT
60451 TAAAGTCAAA AGCAGTTTGA GTGGTGTGTG TATATATGTG GTGGTGATGT
60501 AAAGTCACAA GCTGTTAAAT GTTCTGTGGG TGCACAATAG ATACTTATGC
60551 TGAGGAAATG TACAACTTTA AAGGAGTGTG GGTGTGAAAT TAGTATGAAA
60601 TGGAAATGGA CTCTCATAAT GTGCGTCTCC TATAGACCAC CAAGACTGGA
60651 AGACAGCAAG AAAGGAAAAT TCCTGGGGTA ACACTTAGGT TGGGAAAACC
60701 ACAGGATACC ATACTCATGA GGAATTTTAA CTACCCAAAC ATCTGTTAGG
60751 TTAACAAAAA TTCAACAAAA CATGCCTCAT CAAAGAAGTT TCTAAGGAAT
60801 GCAACTTTAT GATCTAAAAA GAAGAAAACC AAATAGAGGG CAAAGTACAC
60851 TTTAACATTA TTTAAAAATTA AAAATTGTCA ATGTGTTACT AAATATCAGT
60901 TGTTTTCTCT AGTTTTTTCT AAACGTGTGA ATACACTTAT GTGATAAGTG
60951 TTATAGTAAC AGAGGTAGAA ATTTATCCTT TTATAAGAA GCAATTATAT
61001 AATGGTAAGA AGTGAATTTA GCCATAAGTA AATAGGAGTC TATAATTCAA
61051 GACATTTAGA AGTTCATTTG GTGGCAGTGC AGTATTAGGA TGGGCTCCAT
61101 CTTGCTGCCA CTAGAGAAAA TAAATATCAT TTATTCTAGA CATGATGGTT
61151 GCACTTCTGC AAAATTAGTT AGATGCTGTT GAAAATCTTC TAAATTAGTT
61201 ACACAGGACT CCCTAATGGG TAATTCAAGA CAACATTTCT GTCCTCTAGG
61251 CCCGAATATT GAAGTTATTG GTATAACCAC TTAGGTTCCC ATAGACATCT
61301 CAAACTCCAT ATTGCCACCT TCCCTTGCAA GTCTTTTCTT TCTGTGTGT
61351 TCCGTGTCTC AGTTTACTGC ACCACTATTC ATCTAGTTGT TCAAACTAGT
61401 TATCTAGAAA TCTTGTGTAG TTCTTTTAC CTACTCTCAT CCCCCACGAG
61451 GCAAAACCTG AGTCTTATTG TATTTACCTT CTAAATATCT CTTGTATTTG
61501 TTTATTTTTT TTTTCAAGTG TCTCTAAATC CAGACTTTTA CATTTATCTC
61551 TTAGATAAAT ACAAAAGAGA TCTAAATGGT CTTTCTGCTC TCATTTCTA
61601 CCATTACCTT GCACTCAGCA TTTCAATACA CCTGCCTGAC CATGAATTC
61651 CTCTGCTGAA AATCTTTGAT CATTTTCTAC ATGCCTGCAT GTTAAACTA
61701 TGCCCATTAG TAAGTTCTAC AAGGTCATT ATGATTTGGT TTATATTCT
61751 CACACATGCA CTGTTCTTTC TCCTTTATGA TCCAGAATCT TTGCTATTCT
61801 TTCTTATTGT CCTTCTTTC CTCCTCTTCT GGTGACCAGC TTTGTTTTCG
61851 CTATGTTTTT AAGTATCTCT TTTGAGAAAC CTTTCAGAAA TCCTTATTTT
61901 CAGTCCCACC TCCCAAAATT TGTTTCTCAA CAAGTGAGCA TATTACATCA
61951 TAGTTATTTT TCTCTCTTTC TTTAGTGGGG CTTTGAGTTC CTTAAAAGCA
62001 TAAATAGCCA GCGCGCATG TCTTATGTAC CTTTCTGTCC CCGTGCCTA
62051 CTTTTAATCT AAGATTGTG ATGAATATGG AAGAAAGGCA TTTGACTTTA
62101 ATGTTAAAGT GTTACAGTGT CAAAATCTC CATATTTTAA AATAGTTCAT
62151 GCTGATATTT TTTAATTTTT TTGGTCTAAT GCTTGTCTTT CAAATGCTTG
62201 CATTTGTTAT GCTTCTTCTT AAATTCTCTT GGCCAGTAGC TTTTCATGTT
62251 TGATATATTC AGCTTCTTTT ATTTACACAA ACCAGTATAT ATTTATTATT
62301 ATTATTATAC TTTAAGTTTT AGGTACATG TGCACAATGT GCAGGTTAGT
62351 TACATATGTA TACATGTGCC ATGCTGGTGT GCTGCACCCA TTAACATCAT
62401 ATTAGCATTA GGTATATNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
62451 NNNNNNNNNN NNNNNNNCCC CCATCCCACA ACAGTCCCCA GAGTGTGATG
62501 TTCCCTTCC TGTTGCCATG TGTTGCGATT GTTCAATTCC TACCTATGAG
62551 AGAGAAATAT CGGTGTTTGA AAACCAAGTAT ATTTTATATT GTTGATCATT
62601 TTGTGATTTT CCTTTTCAAT AATTAACATA AGAAATATAA ATTATTGCAT
62651 ATAGGAAATA TTTGTATTGC ATGTAAGAAA TATGAATTAT TGCATATAGA
62701 AAGGAAATAA TTATTGCATT TAGAAATATT TCAACAGTGT AAGGAAATA
62751 ATAAATGTCC ATTTCAGAAT AGATTGGAGA AGCATTAAAA ATATCTAAAT
62801 GATTAACCTG GATAATTAGC TGGTAATAAG TATGTATAGT GAGACAGAGT
62851 TATAATAGAT TGATGGTCCA TGAAAGAACA AAGGGGAAGA ACAATGTTTA
62901 AATTTAGAGT GCTAAGTGTG ATTACAAAGA GGAGATATAT GGGTGAAATC
62951 ATAATTTAAA GGAAATGATA GAAAGCATAT AACATTAAAG TATCTAATAA
63001 AGTATTCAAC TATATATTTA ATGTCAAAG ACCTTATGCT AGATTATGAT
63051 GCAAATATTC TAGAATTTAA ATAAAAATAC TTGTTTTTGA AATCCTATTT
63101 ACATAAGCAA GTAGAAAGTT GTAGCAAAAT CACTAAAAAT CAAACAAAGA
63151 AAAGTGTAAG GATTATCACT GTTTTTTTTT AAATCATCAA TATTTTAGAA
63201 AGTCTGATTT TCATAAAGGA AAAAGGGGAG GAAATTTTCT CCCCATTAAT
63251 AGCTTAGCTG TATTTTATCT TTTTAACTT CAAATGAATT CTCCTATTTT
63301 CTCTGAGATC TCAGACTAAA TTTCACATTG AATTGAATTA ACTTTTACTC
63351 TTCTGAGAAAT CTCTTTCTG TCCATTCAAC AAGAAGTGA AAGTAGGTGT
63401 AATACATTGT GAATTTTTGT CTTTAACCTC AGTTCTAAGT TCTAGCTCAG
63451 CATTAGGCCC TAGGTCAGCA AAATTTCAGC TCCTATTTCT TCTGCATTTA
63501 CCAAGAAAGA ATTTCTGATT AACTATGAAA ATTCCAACT ATAGAAAAAT
63551 CCTGGGATTA CTATGTATGG TGTCTGGTGC ACTTTTTGTT CATGCCTAGT
63601 AAATCAATTG AGATCCATAG GCTGCACAGT TAAGAATATT AGCAATGACT
63651 TACCTTACTG TGTGTTTGCT ATGTGCTGGT ACTATTCTAA GTACTTAAAA
63701 CATTGATTCA TTCATAAGTC TTTATTTCTA GCACAGAGTC TACACTCTTA
63751 GATCTTGACT AGGACTTGAG CAAAGCCTCA GGGTGGTAGA AAAGTACCAA
63801 GAGATGGAGA GGTACTAACT GATATGACAT AGAGAAGCTA TCCAACGTGC

FIGURE 3R

63851	CAATCATCTC	CCAAAAACAA	TTGAGTGAGA	ATTTTGACAT	GCACCTCAAA
63901	ATTATACTTT	TGAGGTTTCT	GATACCCTTG	ATTTTCATT	TTCTTTAATG
63951	ATATCCTAGA	TATTTTITAC	CCCAATTATG	CCTGCATACA	AATGAACAGG
64001	AGAAGAAAAT	AGCAAGATTT	ATCCTGGCCC	TAAGACTCCA	GTATGACGAT
64051	GGCCTTACCT	GAATTATTTCC	AGTTTGTTCC	AATGCAGAGC	TTCATGGTAG
64101	CATGAAAATG	GTGATATTTT	ATGCTCTAAT	GGAACACGCT	GACCTGTTGT
64151	TCTAAAAACT	TTGGGAATTG	GAGGAAGTGA	GTAGGGAGAA	CCCTCTTCAT
64201	AGTTTATCCA	GAATTAAAAT	AGAATGAAAG	ATAGGAGACC	AGTCTGTGGA
64251	ATATTTGATG	GCTTGATACA	TGTTTCCATG	TTGATTACCA	GCTCCCAAAC
64301	TTCCTTTACA	TCTACTTCCC	TAGTCTTCAC	AGAAGGAGTA	ATTCAATCCC
64351	CTTTTCCAAT	CCACTCATTT	CTAAGAGTTG	TAATCATTGG	TCATCTAATC
64401	TGAAGAGCAG	TGTCACTATT	TTTTCAAATG	GCATGTCGAC	GTTATAGAGC
64451	AGTGATTCTT	AAACTTGAAC	TACAGTCATT	ACAACCACCT	GGAGGACTGT
64501	TAATTACTAA	GCCCCACACT	CACGGTTTTT	GATTTCAGTAA	GTCTGGGGTA
64551	GTGCCTCAGA	AACCTGCTTT	CTATGGCTTC	CCCAGTGATG	TTGATGCTGC
64601	TGGCCTGGAG	ACACATTTTG	AGGACCACTG	TTGTAGAAAG	TTGTTTTATA
64651	AACATGATGC	TATTCTCAGA	AAATATGTAT	TCTCTGATT	CAAAGTAATA
64701	GTAGTAATTA	GAATATTTTC	ATTCTTACCT	GGCATGTCCA	GTATTGAAAC
64751	TGAGAGGTTT	TTCTTCTATT	TTGTATTTTT	TTTCTAGCTT	AAGCCAGTCT
64801	GAAATTAGTC	AGGAAATAAC	TCATTTAAGC	ATCAAATAAG	ATGATCATA
64851	AGTGAGGCT	AATACTATGA	ACATCCATGA	ATCATTCTTA	GTATTCATGA
64901	ATCTAATCTG	ACAAATCTTT	AGGCTTACTG	TATTTGTAAC	ACTATTGTGC
64951	TATACCTCTG	GAGCACCCAC	CTTGCGGTTA	GGAAATCTAA	TTAGAAAACA
65001	CACCTAACAT	CTCATAAAAT	GATAGGAAAT	ATTTCTTACA	CTGACAGTGG
65051	TGATGCGTTT	TGGTCAGCGA	AATCACTGGG	CTCTAGGAAA	ACATCCAAAC
65101	TACAAAAGGA	TAGCCAGTTA	TCAAAGTGTT	TTAACCAGTG	GACAGGAATA
65151	TGTCCCTGAG	TACTCTTGCT	GTGTGGAAAT	AAGATGAATC	CAATTGCAGA
65201	GCTTCTTCAG	GGCCCTTGAT	GCCCTGAATT	GCTTAAGACA	CAGGAATCCA
65251	CCAGCGAGTT	GGATTTCTTC	TAGTCTGAG	AGACATCTAA	CAGTCAGTGC
65301	TAATTTGTCC	AGGTGTGCTG	AGTCAAAGTC	GACTTGTAGT	CCTTGAAGTT
65351	GTTAATATTT	GTATAGCTGA	GAAAGGACAG	AGCCCTTCAC	TTAGTGATGA
65401	CAGTCACTAG	AAATCTGGTG	GCCTAGTGCA	CCAAATTCTG	AAACTAAAAC
65451	ACCCTGAGTG	GTAGGCCCTT	TTAATAAACT	TTATACTGAA	CTTAAATTCA
65501	AATAATTGTG	CAGACAATTT	AAATTGAAGG	TATATAGAGC	TGAAGTTTTT
65551	TGTTTTGTAA	GTGTAGTTA	AACCATATAT	TCATTATATG	TTATCTTTTT
65601	AGGAAAGTGA	TCATAACGAG	GTACACTAAA	AACCATAGAG	TATTTTCTAG
65651	AATATTTTCC	ACTATTAAAGT	TAGACTTACA	GGGATCTGCA	GATGGCAAAG
65701	TTACAAATAA	GTCTTTGAAT	GTGCTTATTT	TAAAAGTATA	GTATCAGGCA
65751	CAACAAAGT	TGTTGATTCT	TAAACAAAGT	GGCATGGATG	GGGGCATTCA
65801	AATTTTTATA	TGGACTAGGC	AAAATGATGG	TCTATCCAGA	CTCACCTTTG
65851	AGCTAACACA	CTCAGCATCA	AGACACAGAT	GGATGGGAAA	GATGACCCCTG
65901	ACCCACATAA	GACCCACATT	CCTGTGCAAG	GATAGAAGCA	TGATAATCAG
65951	GAAATGATGG	TTGTTAGTTA	CAGAAAATGC	ATTATGGTGA	AAACCAGGGG
66001	GAAAGTGCTT	ATGAGAGGAA	GTGATTGGAT	TATGGGGAAT	GAGAGAATAA
66051	GGATAGATCA	TTCTACTGTA	GTAAATTGCT	GTGATTTATA	AGAGAAAGGG
66101	TATAGTGATA	TCTTGGCCCA	TTACTGACTA	GATTCATTTT	ACAAACAATC
66151	CTAAATCAGA	ATGTGACAGT	TTATGGGGAG	ACAAACAAAG	CTCCCAAAGA
66201	TGCTTATAAG	TFACTAAGCT	TTTAAACTGG	CATATTTTCA	ACTCCTCATA
66251	CTTTTGCCAC	CATCAGCTCC	ATTTATTTTT	GTAGCTGACA	TTCATAAATG
66301	TAATCTGTGA	GCCACCCTTA	TGTGACACTA	GTAATAGTTT	ACTATATGCT
66351	GTGATAAAAG	GGAAATGCT	GGATATATTT	TATTATATGT	TTTGGGATTT
66401	TGTTAAATTT	CATAAGAAAG	ATACCTAAAA	TAATTTTATA	TGTATTTAAG
66451	TATATTATAA	TACTCTACAA	TACTAAAATA	ATTAAGTGCT	GTTTATATAAT
66501	AGATGGGCAT	TTTGGTGTTC	TAAATATTTT	TCTTAAATTA	CCTATGAATT
66551	AATCAAACAG	TTACCTTTCA	TTGCTCCAGA	CAGGTGAAAC	ACATATTGTT
66601	ATATATTATA	TATTAATATA	TATTCAGTTA	TATAAGTTTA	CTTTTATTTT
66651	TCAGTTTGGA	TTTAGGAGCT	CTAATCCTTC	AAGAATACAA	GTTGACAAAA
66701	TACATTCTGA	AGGAAATTTT	TGGCAAAGGA	TTCAACACAG	AAAACCTGTG
66751	TAACAAGACA	GGCAATTTTA	TCAAGAACTT	TACTGAAAAT	GCAAAACATTG
66801	TTTACAGTGA	TTGTTTCTTT	TAAAAAATGA	AGAAAGAAGG	GAAAACGATT
66851	TTTGGAAAAG	TTCAAGAAAT	GGCATTAAGG	CATAGCTCAG	CAAGGGGCTA
66901	AATACCTTGC	TTTTTTTATA	TGATTGATCA	GTGCAAGGAA	ATTAATAATAT
66951	TTAGTAGTAT	AGGTGATTAT	ATGTGTGTGC	ATGAATGATC	TTTGAATGTC
67001	ATTTTCTCT	TACCTCTGCT	TGGGGTCACA	CACTCCCTGA	TGAGAGATTT
67051	GATTGCTAGT	ATTAAAGGAA	TGATTGCAGG	GTTGACATTT	TATTGTGAAA
67101	GAAGAGAAGT	TGAAAGCAAA	GCGCTATATT	TCTTTCTGAG	CTGGCATACA
67151	GACACACTCA	CAAGCCAGAG	TTTTCTTGG	GAAAACCTTG	CACCTTGTCC
67201	TCAAATGAGA	CCCGAAGAAG	CCATTATAGA	GCAGAGATAC	AGAAATTTTT
67251	CCAGATACAA	GCTACCGCAG	AAAAATCTCA	CAACTTTCTT	AGCCGCAGAA
67301	AATTCTCAAT	ACATTTTTC	TGATGTCTGG	GCAACGATAA	TGTGCCACTC
67351	TACTTGCTTG	CTAGAATGAG	TTAGGTTGAA	AAGTATAGTC	CCAACAGCAT

FIGURE 3S

67401 CGAGTAGTAT ATGTTACAGA GGTACATGAA TCAAATAGAT GTTGGAGATG
67451 ATCTTTCTTT TTTGACGTAA TTAATTTTAG CCCATCTTTC TGGTATGAGT
67501 TAGATACCAA GGATCACAGT CTATCACAGC CCCTTCTACT TCATGGCGTT
67551 TGTCTTTTTG TTCACAATAG CCATCCTAAC AAAAGAAGAC ATTAACGCTG
67601 GTCTTAACGG CCTTACATTT TCTGGCCCCC ATTTCTCTCT GGATTCCTCT
67651 ATTCCAACCT AACTGGGCTT CAGCTTCACT GTGGTCCTTG TTATTCTTAG
67701 GACATACCAAG GCGAAATCCT GCCTCAGGGT CTTACGCTG GCCATTCTCC
67751 TCCTGGACAC TCTTTCTCCA AACAGCCAAA CAGTATTCCT TTACCTCCTT
67801 CAAATATTGT TTTAAATGTT ATCTGCTTAG TGAGGCATGA GCTGACCACT
67851 ATATTTAAAA TAGTAACGCC CTAAGCATCT TCATGCCCAT GACCTTGTCT
67901 CATTTTTTAC CATGGTACAT AATACTTCCT AACATGGTAT ATAATTTACT
67951 TGTGTATTAT ATATTCATTT ATTTATATTT TTCTAATATA TATTATTTGT
68001 CTCTCTCCAT TAAATGGAA GTTCCATGGT CTTTGTCTCT TTGGTTCTCT
68051 TCTATATTTT CAGCACTTCC AAAGTGCCTG GCATGCCATA GGTGTTTCTG
68101 AAACCTGTTG CATTGAAAA GGGTTAAACA GTAGAAGCTT TATGGATGGA
68151 TCCAAAGCTA CCTTGATCAC CTGTATGAGC TTTTGTCTCT CTTAGTGCCT
68201 AGCACATAGT AAGCACTTAA TAAATATTTA TTCATTCAAT GAATGCATAA
68251 ATTTATTCTC AAGGCCAACT AAACATTTGG TTATAATAAA GACAAGGGGA
68301 CTCTTTTCTC CATGCTGTT TTTTCTGTT TTATACCACT TGAAATGTGT GGCCGATCAG
68351 AAAATTGTTT CTGTCCACAC TGGTTCTTAC AGAGCTGGAA GTCAAATTTT
68401 TCAAATAACA TTAATAATAA GGGAGCCTTA ATACATTTAT ACAGAGGTCA
68451 TATCCCATCC CCTTTTATAG AGTCAGAGGC AGAAGAGAGG CCATTGAAAC
68501 CCACAAAGCA CTCTATATTT ATATTTTTC AAGCAATTAA TTATGCTGAT
68551 GGCAGGAGAC CTCTTATAGC TCTCATCTGT TATGTATAAT TACCTAAATG
68601 AATTAGGCTA CAATTTGAGG CAGTTTCTCT AGGACCATAA AGCTAGCAGT
68651 AAAAGAATG AAAATGTCTG TTTATGCAGG GTATGTGTAT GATTCCTTGA
68701 TACCTTGTGT ACTTCAGAAA CTGTGTACCC AATTCTGTCT TCATCATTAG
68751 CATCTCTTAG CTCATCAAA CGAATCCTGG AGCATTCTTT CTTTACCCTC
68801 TCCCTGGAT GTTTTCTTGG CAATGTAAAA CTGGATCTTT GAGTACGGGG
68851 TGTCAATGTT CAGATTATTG TACAGTTTTC AGAAGTACAA ATAGGAAGAG
68901 TATCTTTTCT ACTTCCAAAGG TATTTGTTCA CTGAAAGTTC CTGAAATGTA
68951 TTTTCTAGAT TCCTGTATAG TTATATTCAA GTACTATTAT TAAAATATGT
69001 CAATGCTATT ATTAATAATAT TTTTGGATTG AGTTGTGCAC CTAATTTCCA
69051 TAGACATAAT GTTATATGCC TAAGAAATAT ATTCTAAATA TCAATTACTT
69101 ATTCACAGTT TAAAGATTGT CACCCTATT AATCTCTTAG TCTGTTTTGT
69151 GTTGCTATAA GAAAGTATCA GAGACTTGGT AATTTGTAAG AATAGACATT
69201 TGTTTTCTTA TAGTTCTGGA AGCTGGGAGG TCCAAGATGA AGGTGCAGAC
69251 AGATTGCTT ATCTGGTGAG GGTTCACCC TCTGGAGGGG AGGAACGCGT
69301 TCCTCTACAC AGTGGAAAGC AGAAGAGCAA GCTATCCAAA TGCTTAGTGA
69351 AGCCTGTCTT ATAAGGACCT TAATCCCATT CACCATGGGA GGTATTCTCA
69401 TGACGTAATC ACCTCTTATA GGCCCCACCT CTTCATACCA TCACATTGGC
69451 CATTGTATTT CAACATCTAA ATTTTGGAGG GGACATGTTT AAATGATAGT
69501 AACATCTTAT AGCTCTCTAG TATTGAAATA AACCTTTTGA CTCTCTCAG
69551 AGCATGTGAT TCACTTGAAC CAGATATACT GCCCATATTT ATACCATCCC
69601 AACTTGCAAG AAATTATCTG CAATTAAAA ACAAGACAG AAACCTTTCTC
69651 CATTCTGATC CTATTTGCCT CATTCCAAGC TCATCTTTCC ATTTGCCAGA
69701 TAGGCCTCTC AGGCTTCTGG AGGTTCTCAA ACTCAATGAA TATGAATCCA
69751 AATTTGTCAT CTCCTACCAT AGTCTTACCC CACCAAAATC AGTGTATGTT
69801 CCTGAATGTG CTGTTGTGAA CTGCCAAAAT TCACATAAT TAATGCATGA
69851 GTTAGCTTTT ACTANNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
69901 NNNNNNNNNN NNNNAATTTG CACCACATC AAATTATTCC GAGTTCTTTT
69951 TATTAATCTT TCTATAGTGA CTCTAGGTTT CATCTCCTTC TATCTATCCC
70001 TTCTGTCACT ATTCTTATTT AGGATCTCAT GTTTTACTTG GCCTTTTGGA
70051 AAGAGCTTAT CTACACTCAG TGTTTTTCAA ATAACTTAAC TTTTTCATAG
70101 TTACCTGAGT TGTCTTCCTA AATCAATGGA AAAATAATTC TTTTCTCAAA
70151 AACCTCAGCG GAATCCCCTT ATTTAAAGAA TAAACTCCAA ATTCTTTAAC
70201 GTAACAATCA GGTACTCTCT AGCTTAATTC CTAAATTACT ACTTGGGCTT
70251 GTACATTTT ATTCCTCCAT AAATACTGGT CTCTCTGTGA TAGTCTGTG
70301 TCTTGGATTT AGGGATTCTG AATCTTTTTT TGTACCATGA ATCCCTTTGG
70351 AAATCTGGTG AAGTTTATTG ACTCCTTCCT AGAGTAATTT ATTTTTTACT
70401 TGTAAATAAA TAACATTACC AAGATAAGCA ATTTACAGC AATACAATC
70451 TATCTGTCTG TGGGTCCTGT TGTATGTCT TTTGTGGCTT TTCTATGATC
70501 CTCCCCCTAT CACAGAAAGT CCCCTAACCC TGCTCTATCC TTCTCATCTA
70551 TCAAAGACTA GTGCAATTCC CACCTTCACT GTGCATCTTT ACCTTGCAAC
70601 CTGCCCCCAT CTGTATCATC ACTTTGCTCT CTCAATGTAG ATTATATGTT
70651 ATTTATTTCT ATTTATCCCT TATCTTTATC TTTTATGATA CCTTGGTAAT
70701 TGACAACAAT GTGGCAAATA CTGAACAGC CACTTTTACA TACTTTGTTT
70751 TCATAATTTT TTTTAAAGCA CTATAAAATA TTCATATGAT GGGGAAACTG
70801 AGGTCCAACAT ATTTTGGTGT TTCACCAAGA TCATACAAC TGTATTCTTG
70851 CTAGATTATG AGTTATTTGA GGAAGGAAT ATTTCATCTT CCTGATTATA
70901 TCTTCTCCGG ATCTGTGGGA TAGTACTTTT TCAATAATGT TTGCCCATAT

FIGURE 3T

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70951 GTATTTAAAA ATTGAAAATA TTGGGAAATA CTTATCTCTC AATATTTAAT
71001 ATCATTAGAA TTGACTAGGG GCCCCAGGAG GACAGAGGTG TGTGCAGCAG
71051 TGTTCCTTAGG TTAATGTCTG TGTGAAATTA ACTGTGGCTA AATCTTTCCC
71101 TGCATACTAT TATCTCTCCT AATTCCCAGT GGCTTCACAA ATTGAAATTG
71151 TACACATAAG GATTTTAAAC AGAAACATTT TTAAGATATT GTCTCTTGTT
71201 TTGCGTTACT GAAAAAATAA CAAAGTAGGA CAAATTAAGA AAGTAGAACA
71251 AATTAAGAA TTTAATTGGA GTCATAAGGA ATTCAAGAAA TATTGGAAGA
71301 TTGCATTTCT AATAATAGAT CAGAACAATT GAATAACCAT TTCATATTCT
71351 CCACCCTCAG TGAAACAAT AAAATCAACT CAATTTACAT TTGTAAAACA
71401 ATATATGTAT ACTTTCATTA TACCAGTTT AATTTTCAGC TGTGCTTCTC
71451 TATCTCTCTG TAGTCAAATA CTACGTTTCT GCAAGGGTTT TCTTAAAAACA
71501 GCATTGCTAG GTTAACTGTT TTAATAATAA AATATTTGCT TAAAAAGGTT
71551 TACTTTAGCA ATAGTAATGC TTTCTTTTCA AAATATTATT TCAAGTTTTA
71601 AAATAATGAA CTTATGATTT TAATTAATTA AGTTTTCATG TGGAAGTTGT
71651 TCATCTAGAG TAACTAATTT TAAAGAATTG GATCTTTTTA TTTGGTAATG
71701 CCTTTAGCAC TCTGTGAAAT ATAAATTAAT GTAAAATTAA AATTAATTTA
71751 TTATGACTAT CCATTTTTC TGGTCTTTTC TATTATTGTG CTGTAGCAAG
71801 TACTAATTCT AATGTAGCTA GATAATTAAT TTTCTATTGT CATAGCTCCA
71851 GATGGTCCTC CTGAAAATGT TCATGTAGTA GCAACATCAC CTTTTCAGCAT
71901 CAGCATAAGC TGGAGTGAAC CTGCTGTCTA TACTGGACCA ACATGTTATC
71951 TGATTGATGT CAAATCGGTA AGGCATGTCT TACCTTCTGT AAAAAGCCAG
72001 TATAAATGAG TTAATAATAC AAGATTTGGA ACCAGACTAT TTGAATTTGA
72051 ATTTTGGCTC TGTTAGACAG TAGGAAAATT ACTTTACTTG TTTGTGTTTC
72101 AATGTCTACA TCTGTAAAGA TTAATAATAG TAAACAGGGT ATGAGGACTG
72151 AATCAGTTAA CATGCATAAA GAACTTGGAA CATTCCTGGA GATATGGTAA
72201 ATGCTCAATA AATATAAGAT ATTAGTAACA TTATTATAAT ATGTTTTATC
72251 AGTGTATAGA ATGTGTATAT ATATGTATGT ATATATACAC ACATACAAGT
72301 GGTTAAATTG GTAGTAATAC AAATATCTGG TTTACAGTAC GGTAGAAAGT
72351 AATTCATAAT ACAAATGAG AAGAGAGAAG GCATTAGGAG AAATATCTTC
72401 CAGATAAAAT AACATCAGAG CTAAGTCTTG AAAAATAAGT GAAGCAGAAC
72451 ATAAAAGGTA AATGGGAATA GGGGTGTAAA AAAGTAAGCC TCATTCAAGA
72501 AAAATCAAGT CTTTGGCAA TCCCAGGCTA TAGCATTAAA AAAAATAAGT
72551 TCTAAGAGAT GAGGCTAGAT CCAGAGGCTG ACTATACAAC AAGTTACAGA
72601 GTTAGGGTTT TATGTTAAGG GCAGTGGGGT GCCAGTTGGT GATACAGATT
72651 TCTACTGTAT AACATAGGCA TGGTTGCAGT GTAGAGGATA GATTGAGAGC
72701 AGTATGGGGG GTGTAATAATC AGGCAAGGAG ACAGGAAACT ATAAAAGGGC
72751 AAGGAAAAAG AACAGAGGAA ATGTAGCAAG AGAACGAATG AAAAATAATC
72801 TAAACCTATA GAATTTGGTG AAAAATCAAC TAACTCATGA TGGTGAGTGA
72851 GTAGGATAAT TAAGGATGAT TGTAAGTTAT ATGACAGAAG ATTATAGGGA
72901 GGAACAGATC TGTAGAGGAA AGGAATGAGT TCAGTATTAG ACACACTGAG
72951 TTTGAAATAT GTGGCAGTCC TCCAGGTCAA TACCCCATTT GGCAGTATTA
73001 AATATGGATC TGGAGCTCAG GAGAGAAATT CTGGATTTCC AGATTTGGGT
73051 AATGTTAGTA TTTAGAAGAT AGTCAAAATT ATAAGAGTGA ATGAGATTCA
73101 CTATGGAATG TGCAAAAGTAA GATGACAACC TAAGGACAGC ACCCTGGGGA
73151 CTATCAACAC TTAATAAGA GGCCATTGAA GAGACTGAAT GGGAGTAGAT
73201 AGCCATTTGG ATGGAATCC AGGTATGAAA GTCAAACCCT TCATATAAGA
73251 TAGGATGCTC AATGATGTCA ATAATGCAGA ACTGTTAGCC AGAATAAAGA
73301 CTGGAAGTAT TTCTTTGCA CCCTGCTTGG GTTTTGCTGG GCCTGATGAA
73351 CACAGTTTTC TAATAGCATC TTATGCATTA AATTGTATAG CATAGTGATT
73401 TCTCTCTCTT TCTCTCTGTC TCTTGACCAA CTTTATAATT TTATTATGTC
73451 TTTGTAGTAT TCCTTAAATG GAGATATAAT GCTTCTATCT CAAAAGACCT
73501 GTCATCATTA AAATAAAATT GAAAGAATTG TTGATGTATT TGTCTCCAA
73551 TTCAGTCTCT ATTTTCTGTT CCTTTTGTAG AGCATATTTG TGAAGATTTT
73601 AGTATGTAAT TAGCCAAAAA TAATTAGCAC GAATGATGAA TGCCCTGGGA
73651 ATATGCATTA AAAACAAATT ATAAAATGAT AAAGCTTTAC TCTGTCAAAT
73701 GAAAGGCACT TTATTAATGA AAATAGTTCT CCCTTGGAAT TTCTGCTTAA
73751 AGGAACAAAA AAAATAAAAC ATATTAAGAA GTGATTTTGT AATCTCATTC
73801 TTGTAGCCTT CTGCTGAGT TTCAAAGTGA GCAAGGGAAT GAGGGTAGAA
73851 TGGGAAGATA ACAAATATTT TAATTGCTTA TTTTCTACAA GTTACATGTT
73901 CATCTCTTCC TATTCATTAT CTTATTATAT GTTATCCAGC AATATTTTCA
73951 TATAAACATT ATTACCTTCA TTTTGCATAA AAGAAATCTA AGGAACAGAG
74001 ACGGTGAATA ACTTCTCACA GAGCTAAGAC TTGGCTAAAA CTAACAGATC
74051 AACAAATGTT TGACAGGAGA AAGGGAAGGT CATTAAATAA CAAATAAAAT
74101 TCGCCAACAT AAATATAGCC TCACCAAAAC TCCTTTAGAT CAACAATAGC
74151 AAGAACAGAT TCAGATAGAA CCTAGTAATT CACAGTTTCT TTAGGATTCT
74201 TGGAATTAAG TAGAGGTATT TCCTTCCTTC CTTCCTTCCT TCCTTCCTTC
74251 CTCCCTCCCA CCCTCCCTCC TTCCCTTACT TCCTTCCTTC CTTCCTCACA
74301 CATTTTAAAA TACTTCCAAT GTACCAGAAC TGTGCTAGGT GCTGGATATG
74351 TAGAAGTGAA CAACTCTGAT AAAGCACTTC TGCAGCTCAT TTCATTAATA
74401 TGTAATTATC AACATTCAAG AATCACTGGT TCCCAGACTA AGGAAGAATA
74451 CATAGCATTG CACTTGGGAC TTATTGTGCA GCCTGTCTTC TACAAAATAC

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FIGURE 3U

74501 TAGCCACACC GATAAACTC TTAAC TTAA AAGTGTAAC AAAAATTGTC
74551 AATCTTAATA AAATGTAAAT ATCATCTAG ATGATTCTGC TGGAAATTAA
74601 TGCATTTAGG ATCATTTTCA TTGTTCTTT TACTCTTTGA CTGAACAAAT
74651 TGTATTAGT AGCTTCTGTG CATCAAGACA AGGATGAAAA ACATAAAGCT
74701 CTGCTGTCAG GTAGCTCACA CCCTAGTGGT ACACACTGGA ATAGAAACAG
74751 CTAATTATAG AGTTTGAGGT ATGAAGTTTT GTGGGGAATA TAAGGTAACA
74801 AAATAATTAA AGTTCTCTGT ATGGGAGGAA TAGAAGATAA AGGAGACTTC
74851 ATAGAGCAGG TTAATATATAT TCTAGGACTT GACGAATGAA TAGGGGTACA
74901 CAAGATGGGA AAGGGTGGAG GCGGGGTAGG AAGAGAAAAA AAATAGGAAG
74951 TGGGGCAGGA AGAGGAGAAC CAGAGTCTAA TTGCTGATAA TGAATATAAA
75001 GTAACACTTC AAAAATGATG AAAGACATT TATAACAATA GATTATCAAG
75051 TACAATATGA GCAACAAAC TTGGAATTGA TTGAAGGAAA ATGAGTCAGA
75101 AAGATGTGAT TTCAGTCTGT GGTAAAGTGA CAAGTAATAG CTAACAACAA
75151 CAAAGGTGTA GTAGGTTTAA TAAAGAAAG TAATGATGAT CTTTTGTACT
75201 GCCAGATTG AGGACCGAGA ATTCCTTTCA AATTTTGTTA AATACTTTA
75251 AAGATATAAT ATATGCGTGC CATGTCATAT TTTGCGACTT GATATTGTGT
75301 ATCTATTGTT TTAATGGAAG GCATTGGAAG AGTATAATTT ATAAATTATA
75351 CTTATAAATT ATAAATTTAT AATTATATAA TTATAAATAG TTAATTTAT
75401 AAGATCAAA CCAAGTACCT TGTGGAAGT TAGAATTCTA TGGACTCTTG
75451 AAAGACCTGG GCTCAAAATCC TTCCTCTGCT ACTAAGTAAC ACTGAGGAAG
75501 TCACCTTACC TCTATAAAAT CAGAATTCAA ATAGCTATAA AAGACAAGTG
75551 ACATGAACCA GTAGTCAAAG TGAAGCCAAT TGAGTGGGGC TCCAATGAAT
75601 GGGACCCAGG CCCCTTTACA GAGGTCAATA GTTACCCATC TCTGCACCTC
75651 TCAATAATAT TTTTTCAGCA TGAAATTAAG CCTAGTCTTA AGGAAAATTA
75701 CAAAAAGCAT ATTTTATGT GATATTCAAA TGTTAACAACT TAGTTAAATA
75751 CACATTTTCT GCCAGTGGCA TATATTCCTG ATCAATAGGA TTTCTACGCT
75801 GATTTGTTTT TCTTCCATT TCGAGAAGTG GGGCATTTC GTCCACTGCT
75851 CTGTCTTAAG GTGGGAATGA TCTATTGAC TGTATGCAAC GATAGTATTA
75901 TTTATATCAT CCTTTTACTA TGTTTCTTTT TTTTCTTTT TTATAGCAAC
75951 ATCTTTTTTT TAAAAAATAA TTGAGTTAAT TTTATTTACA TTACCTCAGC
76001 AAACATCTCT ATAAATGAGT TTCCAGGACA ACATTACAA TATAGTTATA
76051 CCATATGCAA ATCAATGTGT GTTTCGCCAT ATTATCAATA AAATATGTTT
76101 TTAGCAAAGA GCATTAAAAG AATACATTGA ACCAACCAAC CAAACAAAAA
76151 ATATTTCAAA GTTATAAGGG AAGGTCAAGT TGAAATGGA CTTAATAGTG
76201 TTCAGTGTGT ATAAACCTG GTTTAAGTG TTTCAATTAA GATACCTGAA
76251 AGTAGTATGT ATGATAGGAT TTTGAATTTT CTCATGGTTA TCTTGGGAAA
76301 AGCCCTTCTA CTTAGTGCTA GCAAGTTAG TTATGTTTAA TATCTGGAGT
76351 GAATAGGCCA GAACCTCCAT AAAGGACAGA CTATGTTTGA ACAAATCATA
76401 TAGCTACATT TCATATGCCT AAAGACACTC ATTTATGCAC ATTAATAATT
76451 ATGACATCCA CAATTAATTA CTATCCAGTG CTACACATAG TACTAAATCA
76501 GAGTTTTTCA AACTGCAGCC ATCATCAGAA TTTTAAATG AGGTGGAATA
76551 AAGTTAAAAA GAGCAGAAAA TATCAAAGTG TACTTCAGAA AGATGGTGTA
76601 TTTCTGAAAA ATGTGTTACA GTCATAAGAT ACGTATATAT TTTATATCTA
76651 TCAGTCTTAT CTTCTGAATT ATGTTACAAA GAGTGTTCCT TTTTGTGGGT
76701 AATGGTGAAG AAATATTGAA ATCTATGTGC CAACTACTTT AGATTGTGCC
76751 TTTCTAAATC TCAGTGAAC ACTGTAAATA GTTGTATTAT GCCCAATTTT
76801 ACATGCATTG AAAGACTAGA CTGTGTAGGT GGTTCCTCAA ATACTACAGG
76851 AGCTATAAGT GGCCAATTG GGATTTGAGG CCTGTGTGAT TAGGTACCAA
76901 AACCTCTATG CTTTCTTCTA CAAAATATTG GAGTCAAAAG TAGAGTTTCA
76951 TTGACTGCAA AGATGATTTT TGCTTATTTA TTTAATGGGT TGGTTAATCA
77001 CGGTTGGCTG GTTGTCTTTT TTTCTTTTAC TTTCACTAT TAAATAATT
77051 AATAATTAGT AAGCTGTTAT AATAGCACTT TAGATTCCC AGAGCAATCT
77101 GATTGTAAAA TAAATAAATA CAAATTTGGC TAGATAAATA CATCTCACGT
77151 AGCTTTGTAT TATTATGTTT TGGTGACTCA GATTTCAGT GCTGCTTCCT
77201 TAATTTTATC TTATATTTTC CTATAGGTAG ATAATGATGA ATTTAATATA
77251 TCCTTCATCA AGTCAAATGA AGAAAATAA ACCATAGAAA TTAAAGATT
77301 AGAAATATTC ACAAGGTATT CTGTAGTGAT CACTGCATTT ACTGGGAACA
77351 TTAGTGCTGC ATATGTAGAA GGGAAAGTCAA GTGCTGAAAT GATTGTTACT
77401 ACTTTAGAA CAGGTAAGGA GAATTTCTCA ACCTTGCTAA AAATTGACTG
77451 AGATTAGCT GGCTTTCTTA CAGTTCATCA TACTCCACCA AAAAAGGATA
77501 TGTGTTATGA GAAGTTTTTA AAGCATATAA ACAAAAAAAT TAGTGACTCT
77551 CTGCAACTGA CAAAAGGAA GATTTCTATT TATATTTTGG AGGTAAGAG
77601 GAGTTATGTA GAATATTCAA TCCTTGTAAG TACAGCAACA ATTAAGGTA
77651 TCCGCTGTAT TTCTTTGCAC TTATTTAATC TGCTAGTTGT TTCAGAAATT
77701 AAGTAAGCTT GCCTAAGAGA TAATATTTCC AACTGTCTAT ATCCAATAAC
77751 ACTTCAACTA AAATCTTATT TCAATTATTT CTGTCCCAT ATTGGAATGA
77801 ATATTAAGT ATGTAATCTC TGTGAGTATT AAATAATCTG GAATTCGAAA
77851 GTAGAATCCA GCTCACATT ATCACAGCTG TTGTCTTCCC TTAGTCAAGT
77901 AATATATGTC TTATATATATA ACTCTTTGAT AAATGTGAGA ATACATACAG
77951 ATTTCTCTCA GTTCTTATGA ACAGGGTCTG AATGAATAAT AAGATTGTAA
78001 CCAATAAGAA ATAAATTTGG AAATCAACAT CCCAGAACTT GCTTGCCCCA

FIGURE 3V

78051 TCCTCCTTCA GACTCCTGAT GTTCTTTGCC ACCAGATATA TCATTGGAAA
78101 AAGCAGATGA AGGGATATGT TGCTATAGTT TATTTGTGTC TATCTGTAAG
78151 GTAAGTATAG GAAGTAAAT TTTTACAG CTAGTTTTTT TCGTTACATT
78201 ATATTCTCTA TGCATTTTGT CTGTAAAGTT ATGGTTCTAA ATTTAAAGGT
78251 AAATTTTATT ATCAGCATCC TAAAATTCCA TTTGTTCTTA TTCGTCTGCC
78301 AAGTATCACA GGTATCTATT TTCTGATTAT GCTTTTTACT TCTCAATCCC
78351 TCCTACCTGT GAGGAAAGAT ATGATGAATG TACTCACATT TATACCATAA
78401 AGCATTGTTT GTCAAATCTT AATGTGCTAT CTGTTTCAAG GATATCACAA
78451 TTTAATACAT TTTTACTAAA TCTCTAAGAG TAGAATTTTA TGTGTATAAC
78501 CAAAAATCTG GGTACTAGGA AATTTTTTAC AACATTGAGA GAATTCCTTG
78551 GTTTATCTGA CTTAAATCA CATCCTAAAT TTAGAGAAAC ATCTCATAAG
78601 AAAATATATT TATGACACAG CATAAAAACG TGTAAGTACA AATGCAAAAA
78651 TATCTCTCTT GAACCAACTT AACCTTTATT TTAGCTTTGC ATTTTTCCAT
78701 TTTAAATGAA ATATTTGACA CAATAGTACG TTTATCTGCT TCTCTCTCTT
78751 TTATCTTTG CTGTTAATTT ATTTACATTT TTTGCAAGAT AATGAAGCTT
78801 GAAATATCTGA ACTGTTGACA GCCAAATATT ACATTTCTTC ATGGAAATTC
78851 TTTACTTAGT ATGGAAGGAT ATAACATTTT CAAGTTGAAC AAAATAGATA
78901 TAGTCATTCA ATCAGTCACT TATATAAAGA AACTAATTA TGTATGTCAT
78951 CAAGAAGTAG CTCCTTTATT CATAAATAA CTTTATCCT CATACATATT
79001 TTAATAATGT ATTGGTGCTT AGCTTGTCAT ATGTTAAGCT GTTATTTATC
79051 TAAAATAAAC TAAATATTT ATACTATATA AAGAACTCTT AAAACCCAGC
79101 AATTTAAAAA AATCCAATTA GAAAAATTGGC AGAAGACATG AACAGACATT
79151 TCACCACAAA GGAGACATTG TTGGTAAAC AAACAAACAA ACAAAAAATG
79201 ACAACATAAG TTTTCAATAC CATTAGCCAT TCGGAAAATG CAAATTAAG
79251 CCACAATAAG GTATTATGT CTATGTACTA GAACAGATAA GATAATAATT
79301 TAAATATGCG CGATGATACC CAATGCTGGC AAGGGATGCA GAAAGACTGG
79351 ACCTCTCATA AGTGTCTAGT AGGAATGTAA AATGGAATAG CCACAATGGA
79401 AAATAATTTT GCAGCCACTT ATAAACTAA ACATGAAAT ACTGTGTGAC
79451 CCAGTAGTCA CACTCTTGGG CACTGATCAC AGAGAATTGA AAAATTATGC
79501 TCACACAAAC ATCTGTCAAC AAGATTGATT GCAGTTTTAT TAGTAATAAT
79551 GAAAACTGGA AACCAACCAA ATGTTTTTCC ATGATTAAAC AAACCTCTGCT
79601 ACATCCACAA AATGGAACAC TACTCGGCAA TAAAAAGAAG AATGTACTAT
79651 TAATACATGT AGTATCCACC TTGATGGACC TCAAGGCCAT TGTGCTATTG
79701 TCATTTTCAA AATGACAAAA CTATACAGAG GAAGAGTTAT TAGTGTGTG
79751 AAGAAGCATA TACTGCAAAT AAAAGAGGAT ACTAGGAGAG AGTTTCTTTA
79801 GGGTGATGTA ATAGTTTTAT ATCTTGTTTA CGGTGGTGGT TAAAGGAATC
79851 TATACAGAAG ACAAATGTC ATAAAGTAT AACAAACAT GGAAGGGGT
79901 GAAATTGGGA TAAAGTCTGT AGCATTAAAC GTATTGTACC AATATCAGTT
79951 TCCTGGTTTC ATATAAATC CAGTTACATA AGATATTACC AATGGGAAA
80001 ACTGGGAGAA AGTTAAATGG TATGCTCTGT TTTTGCCACT TCTTTGACT
80051 CTAAATTGTC ATGCCATTGC ACTCCAGTCA GGGTGACAAA GGGAGACCCT
80101 GTCTCGAAAA CAAACAAAAG ATTAAATGT CATAGAAACA CATTCTGTGT
80151 AAAAATAAGT GCATATAAAA CAAACAACT GGATCACCAT TATGGTTGCT
80201 GTGAATTACA GATGTCAATG ATTCTATAAT GCGTCAGTCA TTTTGCTAGT
80251 TTTTGCAAGT TATATGGTTT AATTTGTGGA ATACTCTTTA AAAACAGAAG
80301 TTCAAAGCAA ATAAATTTAT GTGGAGATAA AAAGGAATAC AATATTTTAA
80351 AAAATTAATT GTTAAATATT TTATTTTAGC CCCAAAGGAC CCACCTAACA
80401 ACATGACATT TCAGAAGATA CCAGATGAAG TTACAAAATT TCAATTAACG
80451 TTCCTTCTCT CTTCTCAACC TAATGGAAAT ATCCAAGTAT ATCAAGCTCT
80501 GGTTTACCGA GAAGATGATC CTACTGCTGT CCAGATTAC AACCTCAGTA
80551 TTATACAGAA AACCAACACA TTCGTCAATG CAATGCTAGA AGGACTAAAA
80601 GGTGGACATA CATACAATAT CAGTGTAAGA ATCCGTAGCT TCAGTTAATT
80651 ACCCAAATGA CAATGTCAGT TTATGAACTT GGCATTAAAA AATATTGCAG
80701 TTTGTGTACA CATGACATTT CCCATATCTT TTTGTGAGAT TGTTTGACAT
80751 CTCACAAAA ATAAATTTTG AGAACTGAAA TTACCTATT TCTGCTATAA
80801 TACAAGTACT ATTAATTTAA AATATGTAAA TAACCAAGAA GTTTGCACAA
80851 TAATAGTAGA AACTCAGACA TAAAGAGAA AGAAAAAGCA CATTAAAAAGT
80901 AAAAGAACAG TGATATATAA AGAGATAACT CTGCCTAAAA AAAAGCTATA
80951 TGATTATGAA TTTAAATGG AAAAGCAAAT TTTAAGGACA AAAGACAGAA
81001 ATAATTGTTT ACCTGTTTAA AATTCTCATG CATTTTAACC AAGTATTACT
81051 AAAAGCTAAT AGCATTTTAT GTCTTAATTC TAAATCCCT ATATTGGAC
81101 AGAAATGTAT GCATGAGTTC ATATACATAC ACAGAGACAT ATACAGACAC
81151 AATTTGTTTT ATTCCTTGCC TACTTTTGA TCATCTTGAA ATTTTCAAA
81201 AAAATTATAT GGTTCAGAGA AATCATCTTC TAAGAAACAG AATTTACTCT
81251 AAATCTTCAA GTAGTTTAGT AATCTGCCTA CCAACTCTTG ATTAATATCA
81301 ATGTAATTAT CAGGTCATTG ATAATAATTT GTATATGTAT ATGTGTATAA
81351 AATGAATATA TTTTACTACT CTCTCAGTCA CTTTGACTTT ATATCTTTAT
81401 AAAATAAATC TTTTGGGGAT TCTTTTGGCA TGTCCCATTA AGTGGACCAC
81451 CATTGGTAAA GATCGATTAG AGGGAAGACG GTGACTAAGA GAATAAAGTA
81501 ACCTGGGTTT AAATACTGGC GTCTGTGCCA GGGCAGCTTT ATCAAATCTG
81551 AGCCAGTTT TCTTATGTGA AAAATTGGTA ATAGGAATAA TAACCTCTTT

FIGURE 3W

81601	ATAGGATATT	TGTGAGGATT	AAATATTCAT	AGTTATGGTA	GGTAGTGAAT
81651	GGTACATATA	TTTTGGCTAT	TGGAAGAGAG	AAAATAGGAA	CCAAAAATGT
81701	GCAACTAATT	AATAATTTTT	AAAAATCCTG	TTTGCAGACT	GCAATTTGCA
81751	GTATCCTTAA	AACCTTGAAG	TTTGTTAGGA	TGTATAACTT	TAGCACCTGT
81801	ATTGACCTAC	TGAATCAAAA	TCTGCATATT	TGCATTTAAC	AAGGTGTGCG
81851	AATGACTTCT	TGCGACACTG	CAATTTGAGA	GGCAGTGCCC	AAATTTTCAC
81901	TTATTATTTT	ACTTAAATGT	TAGATTCTAC	CATAAAGAAA	TAAAAATAAT
81951	GGACCATACT	ATAACATACG	TTTTTTATTT	TTAATACTTT	TTTTTTGAAT
82001	TTACAAACTC	AAATATTTTC	TCTAGGCATT	TTCAAGCCAC	ATTTTATGGT
82051	CTTGGTTTAT	TTATCATATC	TACCACATGT	ATATTGTAAT	ATTAACTCAA
82101	TAAAAACATT	TTAAAAAGTAT	CTAGAGTGTG	GGAGGGTGGG	CCACTAATAT
82151	ATAAAACAAA	TTAAGTAATT	CCAATAAACA	TTTCGTATAC	TGAATTGGGT
82201	TTATCGAGTA	CAATGAAATA	AGCCAAGAAT	ATAGTCTCTG	TTTAAATATAG
82251	CAAGATAAAG	TGAAGAAAAG	AAGATTCTCT	GTCTACAGCT	TCCTTAGCAC
82301	AAAGTTAATT	GAAAGGATTG	ACGTTTGTGT	AAATCAACCT	CTGTGTATAC
82351	AAACAGAAAT	GTTTTATGTG	TATATGCTGC	ATTATGCAGG	TTATAGCGTC
82401	AGATACTTTG	GGGCAGGGGT	GAAGAAGGGC	ATAAAGGCCA	TCTTTCAGGG
82451	GAATGATTTA	ATACAGGAAA	ACTGGGAGGC	TGAAGGAATA	GGATTTTCATC
82501	TTAGAGAGGG	AAAAAAGAG	GATCTTGAAT	ATGGATTTAC	AGAAGGCCAG
82551	AGTTACCTAG	CTACAGAGAG	AAGGAACAGA	TGTTAGAGTA	GATGAAGGGA
82601	GAGCGTAGAT	ACAGTGGCTG	TAGTGCTCTG	TTCTTCCTAC	ATTCACATTA
82651	AAATCATGGT	CAGTCCAGGT	CTCAGTGATA	GGGCTGTTTA	GATCACTCAG
82701	CCTTTGTTCT	CAGCGTTTAG	TACCAGAACA	TCAATTTTTA	GAAATACCTC
82751	ATTGTTAATG	TTCTTCCTAC	ATATATTATA	TTCAAGTGCA	AGAAAATACA
82801	ATTAATAGAC	TATATGCAGT	TGTTTTTTAA	AGAAATTATTT	AAAATTACAT
82851	GTTACCATAA	TCAGTTTTAT	ATATATATAT	ATAACTATAT	ATATACATAC
82901	ATATATAGAT	ATATGCATAT	ATATATATAT	ACACACACAT	ACATAAGCAA
82951	TCACCTGAAA	ATAGTAACAA	ATATTTGTTT	GTTTTAGGTT	TACGCAGTCA
83001	ATAGTGCCTG	TGCAGTCCA	AAGGTTCCGA	TGAGAATAAC	CATGGATATC
83051	AAAGGTACAT	ACATGAGCTA	CCTTCCTATG	AAATGCTATT	AATCAGTGAT
83101	TATAATTTAA	ATTCCATACT	TGAAATAAGG	ATGTAGACAA	GCCTTTAAGT
83151	GATAAATATG	CATATATTAA	GCACATACTA	AGTAAAAATG	TGTGGTTATT
83201	AAAGCTATAG	TTAAAAACGT	TTAAATGATG	ATGTGAATTA	CCATGTTAAA
83251	TAAGGAGAAT	GTCTTTATTT	TATATTTCTT	TAATATATTT	TATATTTCTA
83301	AGTTTAAATT	TTTAAAGACA	AATTTTATAG	TCCGTTATTT	GATGTTTCTT
83351	TAAATGTTAT	CGAAAAGAAA	GTGTGTTTAA	ATTGCCTATC	ATTAGACTTT
83401	GACTAGGTCT	AATTAGATTA	TTAGATTGTT	TGACTGATTT	TTATTTTGGA
83451	AGTGAGATTC	TTTCAGTTAA	TTAAATAGTG	TTTTTTGAAC	TACCATGTAG
83501	GTTGGTTTAT	ACTTCTGACA	GTAAGGTAAA	TCTATCAATT	CATGATTCTG
83551	GCAAGTATTT	TTTATAGAAA	ATATAACTAA	AATTTGGGTC	ATCCTTTCAA
83601	AATAAAACAA	ACAAACAAAC	CATGGAACCC	NNNNNNNNNN	NNNNNNNNNN
83651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
83851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNTGATT
83901	AAGGTGACAG	CATTAGGCTG	GGTTTAGGGT	CAAACCTGCTG	GTATTGAAATC
83951	ATGGATTAGC	CACTTGATAT	CTATTTGACT	TTGAGAAAGT	TTCTTAACCT
84001	CTATAGGCCCT	GAAAAATGGA	GATAATACTA	GTTCTCTATCT	CAAAGTTACT
84051	AACTTTGAGG	ATTAAGAGAG	AATCTGAAAA	AACCCCTAAG	ACCCCTGCCT
84101	GGAAACATGT	ACTTTAAGA	ATAAAAAATA	TTCACTGTTA	GATGAAACTG
84151	ATAAATTTTA	TCTTTTGTG	AATGGATTAT	TTATATAATT	GTGATACTCT
84201	TTATAAGTGT	TTGATTAAAA	TTGATAAATT	ATTTACTTTG	GGAAGTACAA
84251	ATGCATAAGG	TCTTTAAAAA	CATCAATTAT	TTACAAAAAT	GACTTCACAA
84301	AGAAATAGTAT	GAGTCATACC	TTTTAAATTT	ATCTTTGTTA	TTCACTGGCA
84351	GACGTGTAGG	TGTACAGATA	GCAATACATG	CATCACTTTT	ATGCTTTAGT
84401	AAAACCTCCC	ATTTTCAGATG	CTATTTCCAT	CCCCATGCCA	GGTTGGTTAA
84451	TCTTGACTTT	TACTCCTTAC	CTAAGGCAGG	CAGACTTACG	ACTTCTAGTC
84501	TAGAGAAGAT	ATATGAACAA	TGCTTTAGTG	GTGGGATCCT	AGAGAAATTA
84551	TGTTTTCTCT	ACTAATACAC	ATTATTTTAT	TAATGATGTG	GAATATTCAA
84601	TTGGTAGTAG	TCTCATGAAA	TTTGCATTTG	ACAGATATTA	TGAAGTTGGA
84651	TAGTAAATGC	CAATGCTGGA	TTCTCTAAC	TGGAAATCTT	TTCTTGGGGA
84701	CTCCCAAGTG	GCCTGGCTGA	GAATCTCAGA	ACTACCTGAA	ACCTGAGCCT
84751	CTTCCTACTG	AATCCTGCCT	TTCATCTTCC	CTTTTACAGG	TGTCATACCT
84801	GTGATCTGTG	GCACCTACTC	CTTCCCTCTG	TCCCTTAATT	CTTCACAGAT
84851	AATTCCTCCA	AAAACTCTCT	TACACATCCA	GTCTCATTTT	AGCCTTTATT
84901	TCTCTTAGTA	CCCAAACTGA	TACATTGAGT	AAGAAATTTG	CATTGGAATC
84951	TGATGCTCAA	AAAAGAGTGA	ACTACAGAAC	CGAGTCAAAA	AAATGTGATT
85001	CAAATGTTGA	TAGTTATCTT	TGATAACTGT	ATGACATAAG	CTCTTTTCCC
85051	TATCTACAAA	ATAAAAACAA	TGTTGATAAT	CCTGTGGGAT	TATTGAGAAG
85101	CTTTTAAAAA	AAGATTCTTA	AAAATATGGA	AATTGAAATT	TGTTAAGTA

FIGURE 3X

85151 ACTTACTGAT GCTCAAGCAC TACATTACACA CACACACACA CACACACACA
85201 CACACACACA CACACACACA GTGAGCTATA AGACCAAATG AAACAAGCAG
85251 AGCTTCTATA CATATATTTT GGAGATATTT GTATGCATTG ATGACAAATT
85301 ATGAATTATC ATGGCTCTTC TAGAAGTTAT TCTGTTAATC TGTTAAGGTT
85351 AAAAGTACAT ATATCTTTTG TTCTAGAAAT TCTGCTCTTA GGAATCTATT
85401 TCATAGAGAC AAAAAGATCA GTAAATAAAG CTCATTGTAA AACAAAGCTA
85451 ATTATTGTAA AACATGTTTA AAAACTGGAG GAAAAGTGAA TTCCCATCAC
85501 CAGATGAACG GTTGAATAAA TATGATGCAG CTGCACCATG ATATATAATA
85551 TAGTCATTAA GAAGAATGAG TTAGCTCTGT ACCTGGTCAC TTGGAAACAT
85601 TTAACCAAGT TATATTTAAG CAAAAAAGC AATATGAGGG GTAATTATAA
85651 TACATACTAG AGCCCCATTA GAAAAAGCAA ACAGTGAGAA GAGTGTGTTG
85701 TGCATGACTA TTTATGTATT TTTATATGAT TATGTGAACA TGGAAAAAAA
85751 TATGGGATGC TATCATCTAG ATGTTTAGCA TGGATTAACT GTGGGAGGGG
85801 TGCTAGTATG ACTAGAACAG AAATTAGTAA ACCAGCTAAA AGAAGCAAAA
85851 GAAACTACAC TAAAATTATA GTAAAAAGTA AATATGTTTA TGCATTATA
85901 AAAAAATATAT ATGAGTGAGA GCATGTATAA ATTGAATTTT TAATATGCAA
85951 AGAGGAGTCA GGTGCCTGAA AATCACACCT GGGCTCTATT ATCTCAGGGA
86001 AGTCTCAAAAT GTATAATTAT GCTTTCAGGA GATAATAATT GCTAAATGTC
86051 TGCTGTCTCC AAGCACAATT CTCTATAATT TGTATTATTAT GTTTGTCATC
86101 ACTTTATCTG TAAATTAACT GCATGAAAGG AGAAAGATTT TTTCTTTTGT
86151 TGATGAAACA ATAACATCAA TTGCAGTGAT ATTTCTTCTT TGTTTTAGC
86201 TCCAGCACGA CCAAAAACCA AACCAACCCC TATTTATGAT GCCACAGGAA
86251 AACTGCTTGT GACTTCAACA ACAATTACAA TCAGAATGCC AATATGTTAC
86301 TACAGTGATG ATCATGGACC AATAAAAAAT GTACAAGTGC TTGTGACAGA
86351 AACAGGAGGT ATCATCACAT GTCAATTTAT CTTGTTAAAT TGTGGAGTGT
86401 AGATTACTGA GTGCTAAAAA GAATTTAGTT CAAATTAAGA TTGACTCCCA
86451 GTTATCACAC ACCTCTTGAG ATTAATAGAT TGTCAATATT ATTATTATG
86501 ATACCAATCA TTTCTTTGTA AATAAATAAA TTATTTATTT ATTTTATTTG
86551 TAAACTTTT ATAAATGTCA TTTATTTATA CCAATTATTT ATCTTTTTTT
86601 ACCTATCAAG AAAGGCACAG TTAANAATATG TGATTTATTA ATTCCATATA
86651 CTAGTAGATA AACATGTTTT GATTTTGGTA AGATGGAATC TTGATAGCTT
86701 CTTTGGAGGG GTGAACAAGT GAGTTACTCT TGATTGAGGG ATGCTCTTTC
86751 TCTACCTGAT AAATCATCCT TTATAACAGT TCCTGTAGAT TCACATGTAA
86801 CAGAGAAGAA CAGGGTTACC TGCCTATACA GGTGGATCAC TTGAATTATC
86851 TCTGTGACT GATGTTGCAT CGAGAGTCCC CTTATACAAT TATAAAAAACA
86901 CTATTTATAA TTGTAANAAT ATATTATAT GTTACTTGGA ATTATTGTTC
86951 TCTTTGTTTC TGAANAACAGC TCAGCATGAT GGAAATGTAA CAAAGTGGTA
87001 TGATGCATAT TTTAATAAAG CAAGGCCATA TTTTACAAAT GAAGGCTTTC
87051 CTAACCTCC AACATGACAG GAAAGACAA AGTTTAGTGG CAATGAAGAA
87101 ATCTACATCA TAGGTGCTGA TAATGCATGC ATGATTCCTG GCAATGAAGA
87151 CAAAATTTGC AATGGACCAC TGAAACCAA AAAGCAATAC TTGTAAGTAT
87201 AGGTTATATC TACCATGCAT TCTGTTAGCA AGCTAGTTAG TATCTTTTAT
87251 CCATCCATCT GCCTGTCTTC TCATCTTTCC AATAAGCACT GGATGTCCGC
87301 CACGTATAGT GACCTGATTT TTCTGGCACT AGGAATAGAA AGATAAACTG
87351 AAAATTTATC TTACATTCCA TAAACATACA GTATTATAGG GGAAGCAGGC
87401 AACCCTAAGA GTAATTATGA TTTGATATAA GTTACATAAA GACCATATGA
87451 AAAATGTGCT ATTGGAGAAC ATAGGTATAT AGGAGAATTT AATTCTTTCT
87501 GTAGAGGACA ATGTGACTAA TGTGTTTTTC ACTTATTATT TTACCATCCA
87551 TGCTGATGTA CAGGATTTTT GAAACACTAT CCTATCCTTT GATTTAACAG
87601 TGGCTTCCCT TTATGTCAC CATAACAATA ACTCTCTGCT TTTTATCTCA
87651 TGAATGAGTG ATAGAAATAT TTAATACCAC CTTTAATATT TAGCTTTTTG
87701 TAGCCCTTAA AAACCCAACA TTTTAAATC AATTTGATAT TTTGGCTGTA
87751 TTAATTTATT TGCTAAATTG ATTATCTTCC TTTTGAATTG ATTATGTTAT
87801 TTTTGTATTG TAAGACTACA ATTTTAAAA GAATCATCTT ATCCTTGTGT
87851 GATTTTCAAA ATATAATTTT TACTAGTAAT TTTTAAATG CAGGTGCTTT
87901 CATTTGTGCC TGTTAGTTAA AACATTATCA AATTCCTTAC AAATATCCTA
87951 AGCCAAGTTA ACATTGGAAA AATTAGAGAA ATTAGGCAA TAAAAATAAT
88001 GCTTTATCAT CTCTATTAAA TGCAATTACT TTGGTTCAAA TTCTAGGTTA
88051 TTGCCTGAAT AGCTATACAC ATATGATAGT TATAAAAAATG ATATACTACC
88101 AAGTATCATG TTTATTTCATA TTTATAGTTT ATTTATTTTG CATATTGTT
88151 CCTGAAACAG ACTCTTCATA TAACAAATAA AATCATAAGA ATTTTATAAT
88201 GGTAGAGGTT CAATCATGTA TTGCAACGTA TTGGTTTTAT GTTTTTAAAT
88251 GCCCTGTGTC CTTTATTTTT AAATTAAGTA AATTTCAATT GTCTCTGAGG
88301 ATCTTAGATT CTTTTTGTA TTTTAAAGCT TGATCTTCTT CTGTATCCTT
88351 TACTTCAAAT GCTATGGAAG CAAAAAGTA TACAAATGCA ACTGTGCACA
88401 CACAGAAATA ACAAACATTT TCTTAATGTG TTTATATGTG AACAAAGCAA
88451 GTTCTATATC ATCATTTTAA TCTAATTCAC TAGCATTGTC AAAAGTGATT
88501 GAGGTATAAC AGTTATGCCT TTTATTTATA AATTATGTTA GTGTAACACC
88551 CTTACAGAT ATCAAATCAT TCCATCTAAA CAAATCCTTG AAGGAGGTGA
88601 GCTGATTCAG TTGTTCAAAC TGCTAACTGC TCACGAGTTT ACCAAATTTT
88651 TAGCCCTGTC CTCATCAAAT TCAATGGGTC AAAGTACGAG ATAATTATTT

FIGURE 3Y

88701 GTCTCATATA AATATAGCAT ATATTTCTCC TGATGATGAT TCCATTCCAA
88751 ATTTTCATCT TGTAAATTCA TTTTCTTTTG AATTAAATAA ATAGTTTTTA
88801 TAATTACTTC TTGAGTTATT CATAGGAAAA ATCACATGAT ATGCAAAAGTG
88851 TTGATTTTTT TTTTTTTATT TTATAGATTT AAATTTAGAG CTACAAATAT
88901 TATGGGACAA TTTACTGACT CTGATTATTC TGACCCTGTT AAGACTTTAG
88951 GTAAGACATT TTTGTAATTC ATTTATAATC TCAACATATT TATCAAAGTT
89001 GGAACATTTA TTAGTAAATG TATTAATCCA TGTCTAGATG TTTTAAATA
89051 TAAACTCATT TAAATGTTAA TTAGCCTCTC TAGTAATATT TGTGGGTTTT
89101 TAAAAATTTTT TCTTTTAGGT TTAGGAGTAC CTGTGAAGGT TTGTTACACA
89151 AACATCTGTC ATCTCATCTT AACTATCCTT TAAGTTAGGT CAGTGCCTCT
89201 CAGAGGATT TTATACCCCA GGGGATATTT GGCAAAAGTCT GGAGCCATTT
89251 TTGGCTGCCA TAACAGGATG GTAGTGGTGG TGGTGCATGC TACTGGCATC
89301 TAGTGGGCAA AGATTAGGAA TGCTGCTAAA TTTCCACAAT GCACAAAACA
89351 GCCCGTAATG TCAGTGGTCC TGAGGATGAG AAACCTGAC TTAAGCCCTA
89401 ATGTTGACTC CATTTTACAG ATGAGGAAAC CAACACCAG ATTCTTTCAG
89451 TATTTAAGTG GCTAGGCCAG GATTCCAACA TTACAGAACA GGATTTTATA
89501 ACATTACATT ACAAATATGG GATTAGACC TGGGTTCAAA TCTTGGCTCT
89551 GTCACTTGAG AAAATAATTT AATTTCTATA AATCTGAGTT TCCTTTGTTG
89601 GCAAAATATT GATAAGAGTA TCATCCTTGA GGGGTTGTTG AAGTTTGTG
89651 TAAAACAACA TATATAAATA TATTAATATT TTATAGTTAG TAAATTTTTA
89701 AAGTTTAATA GCTTTTTTGG ATAGGTTATA ATAAATATT TTAGAAACAT
89751 TTTTATTTAG GAGAAATTAT TTCTCTAGAA TTTCACTGAG AGGATCACAA
89801 CATCTCATCT TGTTTGTGCC AGGCCCTCAA AAGCCCCAGT TTATTCTGTT
89851 TAAAGAATTG CATGAACAGG GTATTTCTGG GGCACCACTT GAAATGTAA
89901 GACTTCATGT GTTGCCCGA TCCTGGCGAG CTGTGCTCA GTGTATCTTG
89951 AACTGCTAAT AGACTTCAGT GAGAGTTATG ACTGGAGAAA GACGGATTGT
90001 CCCACATTG TTAGCCAGAA ATTCTCATTG GGTATGGAAA ATACTAATTG
90051 TATAAAAAGC CAGCCTCCAC AGCCTCTACA TGTAAGTCAAG GAACTTTGTC
90101 ATCTTGAAGA AATAGAGGGG GCATGTAGTT TGCTACATAG ATGTTTGTAG
90151 AGAAATAACA AATTTCTTTG GCTAAAATGT TTGTTAATT TTATACAAAT
90201 CATTGGTTTG ATTAATTTTA CCCAATAATT TCATCATTTT AAAGCTAGCT
90251 GATTAGTTTT GTGGTTTTGA AATTGTATCA AGTGTTCCTT CATTGTATAG
90301 GTGAGTCTAT CACACTCTGA TGCCACCACA GTAAATAAAA TGCTTCTCTG
90351 TCATCAGCAT AATTTCTCTAT AGGTTACAGC ATTCATAAGC CATTACTTCA
90401 GCTAAGTAGT GATCCTGGTG CATTTGCCAA TGGGAAGGTAA AAGACCTAGA
90451 CAAGATAGAT AACCCATGTG TCTTAGGAGA TAATATTTTA TAGGAGCAGT
90501 GCTGAAGGGA GCTAGCCTTG CTGTATTGTA TGATGTTGTC TTTTCATCAAC
90551 TTAAGGTTT CATACAGATT ATTCATGGGA AGGCAACATG TTCCGTCAGT
90601 TATCTGAGAG GACAAAGTTGA GACATTCAGG GTAATGGAAA TGAGAAAGAA
90651 AAGCTATAAA AGGGGGGGAG CGCCAAGCAT CAGGAACCAC AGTGCACAGG
90701 AGCATGATTC CTTAGATTCT GCTAAATGGC TTCTCTCTGC CCAATGATGG
90751 CCTCATCCAG CACTATAAGT AATCTCAAAG AGCTCCTCAG CAATGGTCTT
90801 CTCTTCTTCT TTTCCACTCA CAGTCAAGGT GGTGGAATAC AACCATTAAAT
90851 CCTGGAATGT AGCAGAAATA CACAGTCAGG TTTTGTATTC CTTCTTTGGA
90901 AGTATAACCA CTGCCACCCC AATCATCTAG GTATGAATCT TTGTGTGCTC
90951 TGGAAACAGA AGGAGTCTAC AGTGAGTAAA AGATGTGTAA TGAAGGACAG
91001 AGCACAGGAT CCGGCAAGA CTAAGGAAGG AGGGACTGGT GAAATGTAGA
91051 CTGGACACAA TATATAGAAA GGCCTGGGCT TGCTGAGGGA TAGTGACAAG
91101 GAAGGGTCTT ATGTGTCTAT GATCAAATTA CTCAGAGTTC AGTGTATTTT
91151 TTGTAGACCA GTGACATGAT GACAGTCTTT TAGGTTGCTC CTTAGAGTTA
91201 TCTTCCAGGG ACTCTCTCTT GAGATACAGC AGCTTTGTTA ATTGGCCTTT
91251 GCCCTACAGT GCTTATTCTG GATTGACCAC ATGGAGTTCT GCTATTTAGA
91301 TAGTCATTTA TAGCGAGTAA GACAGTGACA AGTGAATCA AAGGAACCTG
91351 CTGTTGTTGT AATCGTTAGT TGTAAGTAAA TGAGAATGCA CCCCTGGAGC
91401 AGAATTCCTC AATGACTAGC AAAGCAGCCC AGCCATTCTT CTGGTTAATG
91451 GATTTAACAC CATCAATTAC TGTTGTCATA TTTGCTTTCT ACCAGACTAT
91501 TGAGTGTCTG GTTCTATGAG AGATTAGAGT CACTTTCATA GGTCAAGAAA
91551 CAAACAACAT CCCCTAGAAG TGGTCCTGGT CCATTGACA TTGATAGAAC
91601 GCTGTAGATC AGGGGTGTCC AATCTATTGG CTTTCTAGG CCACATTGGA
91651 ATAAGAAGAA TGTCTTGGA CTACATATAA AATACATCAA CACTAACAAT
91701 AGCCGATGAA CCAAAAAAAA TTGTAAGAAC ATATCCTAAT GTTTTAAGAA
91751 AGTTTACAAA TTTCTGTTGG CCCACGTCCA AAGTTGCTCT GGGCCACATG
91801 CAGCCCATGA GCTGCCAGTT GGACAAGCTC GCCACAGATT CAAAAGAGTT
91851 CTTAGTAAAA GAACATTGCC AGGGAAGAAA CTCTAGAAGA ACTCAAAAAG
91901 AAAACAAAGT TGATCAATTC TCCAATGGTT AGTGCAAGA ATGGTTTCAT
91951 GGTGTGTGAG ATGAAGGCAG GCAAATAATA AAGTGCATTC ATATAATACC
92001 CTTGGTGTCA TCGGAAGATG ACAAGGGGTG ATTGAGTCTT TTTTCTCTCT
92051 CAAATATGTC ATGTGTGGG ATATATGAAT CATTTGCAGC AGGCTAGGGA
92101 CTCAAACATT CCTGGTAAGC TGCTGAAGAC ATATGTGTGC ATGTAATCCC
92151 AGACTACAGA GAGAAGTCTA GGTCCCATCA AGGTCATCCA CCCACCAGGG
92201 GATAAGCATT CATTCACTGG TATTTTGCAC ACCACAGGCA ATGAGCACTA

FIGURE 3Z

92251 AGCCGAGTTG CCTGTCTGTT GAAACTTTGG GATTTAAGAG CTTTTCACG
 92301 ACTCTGTTTC CACAGACCAT TGTAGTGGTA ATTATGCCTC TCAGAGACGT
 92351 TATTATTGGG AGTTTAAAAA TAGGGGCAAA AGAATCACC TAGACTGATA
 92401 ATCTTAAAAA TGTTTAAAGT TAGTGAAAGG GACTAATGAA AGTACAAGTG
 92451 AGAGATGGCC AGGTAGAAGT TCACTGGATG GATAAGTATG AGTCTGTGGA
 92501 AGAGCAGTTT GCATTTAGGG AAACCTTTCT GGCCTGTAGG GATAAACAGG
 92551 GAAGATAACG TATGCATTAT TTTAATCCTA AATAAATACT TGAAACTTAT
 92601 TTGATTTCGT TTTTACTCAA GATTGAGTAT TGGCATTTTT ATTATCAAAA
 92651 TTCACAAAAA ACCCTCTTAA ACTTTTGTAA AAAATCTTCC CTAGGCACAT
 92701 CAGTTTATGG AAAGTGCTTG TAGGCAATGT TTTGATTACA AGGTTTAATT
 92751 ATAGAGGGAT CCTGTGATTT GAAAACCAGA CACCCGTTTC TGTACCTTAC
 92801 AGGGCTCTCA TTAAAGCTGA ACATGATGAA ATCTTAAACC CCATGGCAAA
 92851 GGCACCTCTG GATTGTTTTT TTTTGTCTA ACACTTCTCA TTTAATTACT
 92901 ATGCTAACAA TGAAAAGTTC CAATGTGCTC ACTTAGATTC AGAAATAGGG
 92951 AGTTGCTATG TATCTTTTGC ATCCAAAGGA TTACTTCCCT AAAGTACCCA
 93001 GAGGAACAGA GGAAGATTGT ATTTTGTAA CGAGACAGTG GTAATGTGGT
 93051 GGTGAACCTC ACATACTCTG TAGTCAAGAC AGACGTATTT CAGGCAGGCT
 93101 TGGTATATAT TGAATTATG AGATTGTGGG TTAGTTACTT AAAAAATTAT
 93151 TTTTAAAGTT TGAAATCTTA TTTCTAAAT GAGAATACTA ATACTCCATT
 93201 TTAGAAGCTA ACTAGGAGAT TAAATCAGAT GAATAAATG GATGAATAAA
 93251 TATGAAATGT TTGTTAATAA AGATACCTGT CATTGTTTAT GTACCAAGTC
 93301 TTTAAGGGGT TTTACATATA AACTCATGCA TCTTCACTGC AACTCTGTAA
 93351 CAACACCTCC TATTTACATA GCGCCAATTT CTAGGTAAGA AGTTTGAAGC
 93401 ATTGTGTTTT TTTACTAACT GACCAAGCTT TTTAACCATC CCAAAGGTGG
 93451 TGGCAGAACG TGCTTTCAGA CCCAGGCAGC GTGACCTCAG TCAGTGTCTG
 93501 ACTTGTAACC ACTGCACACA CTACCTGCAA ATCACTAAGT CCCCAAGTAG
 93551 CCCCCAGTTC ATTACTATGG GTGATGTTTC TGCTCCCAAC ACCTATCTTT
 93601 GCTGTACCAT TTTCTCTTCT TGATAGTTTT AATTATTTCT AGCAGCTCTC
 93651 TTTTCTCACA CTTTGTCTTG GCTTTTGAGG TTAGTGTTCA CAGATAAGCA
 93701 TGTGTTGCTT TTGTGTTTAG AGATATGGTT TCTTTTATT TTTTAAACAC
 93751 CGAATAATGT GACTTTTCTC ACACCCTAGC AAACACTTTA TTAGCTACCT
 93801 TTAATTTTTT TCCTGTCTGT ATGGATGAAA ATGATGTTCA TCCCAATGGG
 93851 GTGTTTTAAT CTATATGTTT AAAATTTTAT TGAATATTGA CAAATTATAC
 93901 ACGTATATAT TTATGGGGAA CAGAGTGATG CCATGATATA TGTATACCAT
 93951 GTGCAATTAT TGAATCAAGT TAATTAACAA ATCCATCACC TCAAGCACTT
 94001 ATCATTATTT CCTCCTATCT AACTCTATTT CTTGACTTAT GGAATTGAGT
 94051 AACTTTTAGT AAATTATTTG CTCAGTGTTC GAATACCCTA GGTGACTAGC
 94101 ACTGGGCCAA AAGAGAAGAT GAACTCCCTA TACTTTAGTC CTGTTATAAG
 94151 AACTCAATTT TTATAATAA AATAATAATA ATAATAATAA TAATAATAAA
 94201 GAAGGAGGAA GAGGAGGAGG AGGAGGAGG GAGGAGGAG AAGAAGGAGA
 94251 GGGAGAAATA AGGAGGAAAA GACTTTCAT TTTATATGCA TCTTTATCAG
 94301 GAGCCAGGCA TTGTACTATG AGCTTTATAT CTAATTGAAT TCAAGTTTCT
 94351 CCTTAGAGAA TAGGCTTAAA AACAGACTTA AAAAGTTGGA TACATATGCT
 94401 GAATTTAAAT AATGATAACT TCAGTCAGAA GATAATACTT ATGAAAAATT
 94451 AGTGCTTTAG AATTATGATT TGCCAAATTA TAGTAGTACA ATTTATTATG
 94501 TAAACAGACC AATTTAATGT GATTTGTAC AGGATTTTAA GTCTAGTCAG
 94551 AAATGACTTG CACCTACTAC AAAAAGAAAC ATGTTTATAT TTTTAAAGTAA
 94601 AAGAATTCCA TTTTCTATTA AAGGATTGAG AGAAGTGACA TCATTCTCTA
 94651 CTGTTAATGC TCTGTGGGTC CATGCATAAC AGTGAATCAG AAAGTGACTT
 94701 TGATAATCAG GGAACATTTT GTCCTCTCTT AGTGACACTT TTGTAATTCA
 94751 TGTGCCCCAA GGATTACATA TTGTTTATTA ATATATTATA TGTCAATTCC
 94801 TCATTGGGCC AGTGCTTTGA AATGGTAATC TAATCTAAAA AAAATTTTTT
 94851 GTGTGGTCTA TGAGAACATT TTTTCCAC TGAGTTCTAA GGCCAGTGTA
 94901 TTCATTATTA CCTAATAAAG AGGATTCCTT ATTCATCTTC ATGCCTCCTT
 94951 TCCCAAGCAT ATCCAATTAG AGTCACCATG TGAAAATTCA TAAATCAAAC
 95001 CGTTCGTATT TTAATGTATA AAAAAATGTA CCTAAAATAC TTTAGGTGAT
 95051 ACATGCTGCT TTCTCATTTT TTAAATTAG CAGGAGATTC TAGCAGACCA
 95101 TGAAGTGCTG ATAAGTGT TAAATTCAGT ATTTATTCAA ATCCACCATG
 95151 CAGGATAGCC ACAGGAACCT TTTTATATTG GTAACATTAC ATAAGTACCA
 95201 ATACAGGACA AAAAGATGAA GCATTAATAC GTGCCTATTT TACACATTGG
 95251 TAACCTATTT TGTCACTTGA CTGTAATACT TTGTGCAGTA AAATTATAAA
 95301 TTATGTAAC TAAATTTGAT TACAATTATA ATTAGTAGTT GTGCTTAATA
 95351 ATTTTATAT TCTTATTTGG TTCAATGCCT GATCTTCAAA CACGAACATT
 95401 TTTAATCTTT TTCAAAATCA ATATATTTGT TCATTAGTAA ATTTAGCAAA
 95451 TATTTATTTA ATATTACTC TGTGCCAGT ACATCTCTCA GACCGTGGAA
 95501 TAGTTTGTGA TAAAAA AAAACCTGTAC TCAAGGGGGC TTACATTCTG
 95551 GAGGAAGGA CAGGAATAA ATAGTAAGAA TAATAAATAA GTGATTTATA
 95601 TGTTAAATA AGATAAAGTT ATGGAGGAAA AAAGTAGAAC AGAGGGAAGA
 95651 AGGAGGGGGA GGAGGAGGCA GAAAATGCAG GGAGTTGTGT CTTTCAATTT
 95701 TAAATAGTGT GCTGTGTTAG TCTGCTCAGG CTGCCATCAC AAAATATCAT
 95751 AGATGGGGTG TGTAAACAA TAGAAGTTTA TTTCTCACA GTCCAGAAGG

FIGURE 3AA

95801 CTAGAAATCT AGGATCAAGT TTCCTGCCCA TTTGGTATCA GGTGAGGGCT
 95851 CTCTTTCTGG CTTACAGATG GTTGCCTTCT TGCAGTGTTC TTACATGGCC
 95901 TTTCTTGGT GCATGGATGG AGATAGAGAA AATATGGTGG GGGGAGGAGG
 95951 AGGAGAAAGG AGTGAGTGGC ACACACACAC ACACACACAC AGAGAGAGAG
 96001 AAAGAGAGAG AGAGAGATGG AGAACAAGCT CTCTGTGTCT CTTCTTATAA
 96051 GTCACATAAT CCATCAGATC GGGGCCTCAC CCTATGGCCT CATTTAACTG
 96101 TAATTCCTTT CTTACTCCAA ATACAGCCAC ACTGGGGATT AGGGCTTCAA
 96151 CATATTAATT TGGGGGAAAC ACATGTATTC AGCCCAATAAT ATATGATCAT
 96201 TGAGAAGGTA TTTAGCAAAA CCTTTAAAGG AAGTGAAGTG GCTACCCAGA
 96251 AAGATATACA AGGCATACAC ACCTTTGCAG GCAGAGGAAG AAGTGCTGCTG
 96301 AAAAGCCATG TGTCACAAT GGCCTTGTGT TATTCATCAA TAAGGAGGCT
 96351 AATCTGGCTC CCTAGGAGTG AGCAAGCAAG GTGGGGACTG GAAGGGAAAT
 96401 CAGAGGGGTA ACAGGGGACC AGACAGTTAA TGAGGGACCA GATCACACAT
 96451 GCCACTGGAA GGATATGGGC TTTTCTCAGT GGGAGATGAG GAGGATTTTA
 96501 AGCAGAGAAA TAATGTTTTA AAACGATTGT CCTTGCTTGT ATGTTGAAAA
 96551 TAGGTGGAAC AAGGACAAAAG GTGGATACAG GCAGACTTGC TAAGTTTTTA
 96601 ATTCATGCAA GACAGGATGG TGGCCTAGAT CAGATTATCA GCAGCAAAGG
 96651 TGGAGCAAAG TGAATGGAAC ATACATAAAA CTAGAAAAAA TGGTGTCTATG
 96701 AACCCCAAAA TACCTACTAA CTCAAATTTAA TAATAATTAA CATTGGCCA
 96751 CATTGTGTTT ATTTAGACAT TGTTCACTTA TTTCTGAAGT AAAGTAAGTC
 96801 ACATAACGCA TATTCACCTC CTAATAACTT TAGTATGTTT CTCTAATAAG
 96851 TACATTTTTA TTATATGCT GTGATTAAAC TTAACAATAA ATTATTGATA
 96901 TTATTTAAGC TACTTGTATA TACGTTTTCA AATCAGTCTT TGATTTTTTT
 96951 CTTTAAAGTT AATTTATTTG AATCAGGATC CAAATAGGAA TTTACACATT
 97001 ATCTTTGATT GTTCTGTTTC TTCTATTATT TTTTAAAGA GCCTTCTTTT
 97051 CTCCTTTCCT TCCCCCTAT GTCATAGACT CCCTGAAGCA ATCAGATAGG
 97101 TTGTACGTA GGAAGTCCCA TATTTTGGAT CTGTCTGGTG GTTTCTCTT
 97151 GATGTCCTTT AATTTTTTTT CTTCCACCA CTTTCTTATA AATTAGAAAT
 97201 AAGATCTAAA GCTTTGAGTA TTCGCAGTCA ACATTTTTGT CAGAAGTACT
 97251 TTATAGGTCT TGCTCACTAG ATCAAAATAC CTTCCATCAG GAAGTGTAGA
 97301 ATATCTGATT GTTACACGTG ATGCTAAAAT TGATCAGTAG GCTTGGTGGC
 97351 AGCAACAGCA TGATCCTTCA TTGGAAGTT GGTTTTGACC ACTTATAACA
 97401 AGCGTATAAT CTATACAGCG ATATTTTGTC ATCCTGTAAA TGTCCAATTC
 97451 CCCATTAACT TTCTCCTTAA TCATTTTAGA ATACATTTAT GTTTGTTACC
 97501 TGAATCAACT ATTTCTGTAG AAATACTGAT TATTAATTTT TTTTATTTT
 97551 GAGCTGGTGT TTTGCTCTTG TTACCCAGGC TGGAGTGCAG TGGCAGGATG
 97601 TCGGCTCACT GCAACCTCCA CCTTCCGATT TCAAGCTATT CTCCTGCCTC
 97651 AGCCTACCGA GTAGCTGGGA TTACAGGCGC CTGCCACCAC GCCCAGCTAA
 97701 TTTTGTATT TTTAGTAGAG ACGGGGTTTC ACCATGTTGG CCAGGTTGTC
 97751 TCGAACTCCT AACCTTGGGA TCTGCCTGCC TCGGCTTCCC AAAGTGCTGG
 97801 GATTATAGGC ATGAGCCACC GTGCCAGGCC CTGTTTATTA ATTTCTAATT
 97851 TTGTCACTCC TTTAACATTT ATGCAGCAAA ATTATCTTCT AATAATGAGC
 97901 TTTATCTCCT TAACCTAGGC TATTTTTAAA AAGTCATAAA ATGTAGTTCA
 97951 GATAAGAAAC CNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 98001 NNNNNNNNN NATTTTGT ATTTGTATT CTTTATTA ATAATCTTAT
 98051 TTTTATTTT TGATCAATTT CCATTTTAT TAAATATAAG GCTTGAATTC
 98101 TTCCCTCTTT GGCCAGTAGG AGCCCTTCA GGAGGATCAT TTGTTCTTT
 98151 TATACCAGTA GCCTTTGT AGCTTCCTAG ATCTCTAGCA CCATTATATG
 98201 TCTTGAATTT GTTTAGTTCC TTCCTCCAC TTTGCAATTA CCATCTTTCC
 98251 AAAATTACAT AGTTTCTTTG GTGAAAATTA CAAATATGTT GAAGATAGAG
 98301 CCTACAGGAT TTCTCACAT GTTTTGGATG TATTCATGA AAGAGAGTCA
 98351 AAGATGACTC CAGGGTTTTG GCCTTAGCAA CTACAGTAAT GGAGTGTCCA
 98401 TCAACTGAGA GGTGGGAGGA TACAGTTGAA AGGAGGGGAG TGTACATGTT
 98451 CAGTTTGGGA CATATCAATT TAACATTTTA AGTATACTTC AAAATAAAGA
 98501 CGTCTGGTAG GCAGTTAGAT ATATAAGTCT GAAGTCTGGT GGATAAAAAAC
 98551 TAAGTAGTCA TCATCATATA GATGAAATTA AAAGTGTGAG GCTAGATGGG
 98601 CTCACACTGG GGAGTGAGTT TAGATAGAAA AAGCAAGAAG ACCCGGGACT
 98651 GAGCCCCAAA GTTAAAAAAT CTAGGAGAAG AGGAACAAAC AAGCTGCTAC
 98701 ATTTTACTAG TATCTTCAG CAAAGAATAT TTTCTTATGC CAAGATAATA
 98751 TTTTTTGGTA GTTTGGGATT CAAAATAAGA TTCCATAATA ATATTTAATG
 98801 ATCTCTTTAT CCTCTCTCTC CAGGGGAAGG ACTTTCAGAA AGAACCGTAG
 98851 AGATCATTTCT TTCCGTCACT TTGTGTATCC TTTCAATAAT TCTCCTTGGG
 98901 ACAGCTATTT TTGCATTG CAGGTAAGAT TTATTTGCGC TTACATTCCA
 98951 GGATGCTTTA TGGGCATTAT ATCAGTCATA GTCCAATCAG GAGACAGAAG
 99001 CCACAACAGT TACTTGAATG GGAAACATTT TTATTTTTAA TAGACAGATA
 99051 AAAATGTATT TATCATGTAC AATATGATAC TTTAAAGTGT ATATGCGTTG
 99101 TGATAGTACT AAATCTAGCC ATAAAAGGAA AGAAATCCTG CCATTTGAAC
 99151 AGAAAACATT TAATGTAAAG AATTGTTAAC TAGCAGAAAT GGCTAACTAC
 99201 TAAAGAGAGT AAAAGAGAAA TCTAAGAGTC CAGAAGTAGC AAGCAAAACA
 99251 AAGCAGCTAC TCTCTTTAAC TTGAAGGAGA GAGGACAGTA AACAACTAAG
 99301 AACTGAAAGA AGTTGTCTCC CAAGACTTAC ATGGAATCGC TACTTCTAGC

FIGURE 3BB

99351 ACATGCAACC TATCACCAAA CAGTGAGCAA AGAAATATGA CAGAGGGAAG
 99401 GGGTTGGAGC TGTTCCGTAG AAGCTACCCG TCATTATTAG ATGGTAGGCA
 99451 GGCTGAAATT GGTAAATAGAA GCATCCCAT CTTGCTGAAT GGTGTAGGTG
 99501 AGCTGGTACT ACTTGAGACT GTTCACGAAT GGCATGGGCA GAACGTTTAC
 99551 TTCAGAGGCA ACAAGAGCTC ATCCAAGTGA GCTGCTGGGC TCTCACAATG
 99601 AATAACAATA ATGCAGGATT GGATCCCACA AGGGCAGTGT TTTCTCTTTC
 99651 CTACTGCCTC TCAGGGTCAC TCTAGTGCCC TCTATTGACA AAGCCTCACT
 99701 TTCGGCCGGC TGGCAAAGGA GAAATGCAGG TTCCAGCTCC AATATCAAAG
 99751 AGCACAGCAA AAAAAAGGAG GTTTGGAGAT GAGAGACAAC AAGGTGAAAA
 99801 CACAAAAGCA GAAGCTTTCA GGCCACCTAC ATCTTTTAAA GTAATTTGTA
 99851 ACTCTTATAG GTTTAATTTA AAATATCTCA ATCAGGTCTA AATATTAAAG
 99901 TTTATACAGA AAGAGATCTT TTTTATAGTT AGAACACAC TTGTAAAATA
 99951 TCCAGCTTCC TTATATGGTA GACCCCTTC TCATGCTTAC TTTCTGAACA
 100001 TGTCTGTGCT GAATTTTCCA AGTGATCTT TCCATTCTCA GCATCAGCAT
 100051 CCTACTTCCC TTATTATTTA CAGGGCCTCG TTGGAATCT TACTTCTGAC
 100101 CTCAAAATCT AGCTTCTTAA GGCAGATTGC CGAGTTAAAG GGACCTTACA
 100151 TTTGTAAAGT AAACCTTCTA CCAATTTCTT AAATAGTTCA ATAGACTATT
 100201 TTTATTTCAT CTGAAGAATG TAGTTCTGTA TTCTAAATGC CATGCATTAT
 100251 GGGTTCATCT GACTCTCTTA AAGCATAATT TTAATAGATA ATTTGAAAGG
 100301 CTCTTGAAAA AGATATTTTC TCTATACCAC ATAACTATTT GCAGATTAG
 100351 CCAGAAGACA GTGAGAGAGT TATCATTCGA GGCACCTTGA ATGCTATAAT
 100401 GTGTAAATAA TGGGCCCTTC CCTAAGGAGT ATGGACTGGC CACATTTATG
 100451 TAATTTCCCT GCTCTAAAAT CTTTCTGAC TTCTCATTTT TCTACAAGAT
 100501 GAACTCCTTG TGTGAGTAGG AAATGGTCCT CCTTATTTCC CACAACCTGC
 100551 CTACTCACTA GCTAAAGAGA TCTATTCTCA CCTGAACATT CCTTGGGCTT
 100601 TTATACATTC TGCTTTTGTT CAGTCACCCT GAAATGTGCT TCCTCCTCCT
 100651 TCTCATCTCG GGACATCCAA GTCAAATTCT ACTTCTTTAC CTCCTCTAAA
 100701 TAATAATAAC TATTTATGTA ACTAATCAGG CACTGTCTTA TGTGTTGTAA
 100751 TTTGAATCTT TTTTCTCTT TTCATGTTTT TTCTGCATG AAATCTTGCC
 100801 TCTCAACTAA ATTGTAATGT CTTTGAGGGT AGGGAACATG TTTTATACTT
 100851 TCCATATCAT CCTTGATGTC CAACTCTTAA TAAATACTAA ATATTTGAAA
 100901 TGTGAAAGAT AGAATAGCTA AACATTACTT TGTAAATATC CATACTGTGT
 100951 CATGGAGAAA TAAGCATTTA AAGGGTTTAA GATGAAAAGA ATCTGATTGT
 101001 ATTCTCAGAT TCATGTGGCT TTTATTTTTG AACCTAAGTT TTCTGATTGT
 101051 AAAGATAATA TCTACTCACA ATATTTTAT AAAAATTCAA TAAGATAATT
 101101 TGAATAAAT TTTTAAGTAT TTTTATGCAT GTAAAAATAT TTCATATATG
 101151 TGAACACAAT GGGGCATTAT CTGTTAGCAA TACTATTGAT AGCATTGAAC
 101201 TATTTTCACT TTGGCATAGT TCCTTTATAT GACAAATCAA TGACATAGCT
 101251 AGAGAGAAGA GAAACAAGAT CACAACGTAA GTCTTCTTGG CTCTATATTT
 101301 AAATGTACCA ATGGCTCAGG CCTTCGTCAA CTAATCTTTC TTAAATTTAG
 101351 AACTTCATCC CAATAACTTA TTAGAAAAAA AAGAAAGTAG AATAGGTTCT
 101401 ATGGAATTAA AACAAAGAAA AGAAGTCGAG TAGCTATAAA TTGCAACAT
 101451 ATTCAGAGAG GTGATTTTAA CAAGGAAATT ATTTGACTAA ATGTCTTTAC
 101501 TTAAAAAGAA AACTAAACCT AATTTTATAT ACTTTGTGTG AAACCTCCCT
 101551 CTTGGACTTT ACTCCGCTTG TTTTAGAATT CGACAGAAGC AGAAAGAAGG
 101601 TGGCACATAC TCTCCTCAGG ATGCAGAAAT TATTGACACT AAATGGAAGC
 101651 TGGATCAGCT CATCACAGTG GCAGACCTGG AACTGAAGGA CGAGAGATTA
 101701 ACGCGGTGAG CACACTCCTC TGGGTGAACT GTGGTCCAGA GGGCCTGGAG
 101751 CCATGACCCT ATTCTGACCT ATGCTTGTGT GAAGTGTGTT TGGGGCTCTA
 101801 ATTTACACAG GTCACAGAGA TCTTCTTTCA AAGAGTGACC TCCGTCTTCT
 101851 ACACACTTCT CACTGCTGTT CAGAGAATCA CTTAATCTTC CTAATATTTT
 101901 GAGTTAAATA TGAACCTTGG ACTATAATGT TCAATCAGGA TTATTTTCTC
 101951 GGGACAAATA TTTTCCACA TTAAACCTTT GACATTATGT TTAATAATTC
 102001 ATTTTCATATG ATAGATTTT ACATTAACCT TTTCTGGAAG TGTCCACATT
 102051 TTCAATCACA GGTTTAAATT AATTAAATTT ATAACACTT GATATTATTT
 102101 ATATCCATTT TTATAAAAGC TTTTAAATAA CTATTTTCACT ATAAAAGTAC
 102151 ATAAAAGTCT AAGTTGTATA TGATATCATT TTTACATTTT TTTGTATTTA
 102201 AAAATTAAT ATAAAGTAAA AAGTTACCTT CAGAGGGAAG AGTAAAAACA
 102251 TGTGTACTAA ATATGTTTCA TTGGTACCTA TTGGAAATAG TAAAGTACAT
 102301 AATTTTAAAG AAAAAATAA TATAAATCCT TTTAAAGCA TTATCAATTA
 102351 TTCAAAATGT TGGCACATTA TAAAAACTTG TCTATTAAGA TAATTCATCA
 102401 AATTTCTTAT GAAAACTACC ATCAGGCTAT TTTAACGTTT GCATTTTAT
 102451 AAGATTCAT AACATGTAAT GCTTATAAGC ACAAAGTAGT TGTACCAAG
 102501 TATTTGCTCA GCTCTGTTAA AATTAAAAAA ATTATTATTA ATTTTGAAAA
 102551 TATGGCATCA AATGCTTGG ACTCAAAAAG TTATTCATTT GTAGTTGTCA
 102601 CTTGTTAAAG TTGGTCTTTA TCTAATAGAT GGACTTTGCA AGTATATTTT
 102651 CAGCATATCT AAAAAACCT AATATGTGCT ATAGAGGGAA GTGTCATCTG
 102701 ATAAGCAAAAG TCCTTCCAAA TGCTACAAAA TGAAGGTTAT TCAATGTTAT
 102751 CACTAAATTT CAGGGAAATG TGTTTTCTTG GATATGACAG CTGACTTTTT
 102801 AAACATTCAG ATGTTGATCT TTGTGTTCTA ATACAGTGGT CCTATCCACA
 102851 AATGGATAGT ACTCCAAAGA TTTAAGTGTC AGATGATTGT AAGTTATCCA

FIGURE 3CC

102901 AGACATAGTT TTCTATATAA GAAATATTAT GTACAAAATA TCAAATATGT
102951 AAAAAGAATC AATAAAAGAT TCCCAGGGTA ACTCATCTAA GTAAAAACCAT
103001 ATCATAGGAA CACAAGCACT GCTACTACTA GACTGTGTCT CAGCCCTTAA
103051 GGAATCATTG TGCATCATCA AAGAAAGTTT TTCCTCCTTT TCCCTATGG
103101 GCCAAATGAA TTTTAGTGGT ATCCTCCTAG CCTCCTTCCT GCCTCTTATC
103151 GTCAGTTCCCT TTTGCCCTC CTCAGGCCTG TGTGGCCCAT CCCTTTATTC
103201 TACAACGTAA AATGCACAAG GGAAAAAATT CAAATCTCTC AATGCAATTA
103251 ATTTTAGCTA TTTGAACAAT ATAGTTGAAT CTGTTTCATC TAAAATGTAA
103301 ACTTCTAAGA CCGACCCCT CCCCAACACT GGTAGGCATT TTCATTTTGT
103351 TAAAAGAATA CTTAGTAGCC CGTGAAAAAT CCTGAATAAG TATATCTTCA
103401 GCAATGTAA TAACGTGAAA AAGCACTCTT TTTGTTTATT ATGTCATGTT
103451 TTTAAACAGT CAATATTGGA GAAAGTATTA TTTATCGAAG AGGTTACATT
103501 CGAGGCAGAC TGTGGTGAGA TTCAATCCCC TAAGCACTAT ATATTTTCAC
103551 AGCTTGCCCC TTTCTCTACT TCTGAACACT AAATACATCA TCATAAAAAA
103601 ATTAGAAAAAG GTCGGGTGTG GTGACTCATG CCTGTAATCC CAGCACTTTG
103651 GGAGGCTGTG GAGGGTGAAT AACCTGAGGT CAGGAGTTTG AAACCAACCT
103701 GGCTAGCATG GTGAAACCCC ATCTCTATTA AAAATTTAAA ATTAGCCAG
103751 CATGGTGGCA TGTGCTGTGA GTCCAGCTA CTCCAGCCTG GGTGACAGAG
103801 CGAGACTCCA TGTCAAACAA AAAGAGTAGA TTTTTTTTTT TTAAGAATGA
103851 CTGTCATGGC AGCTACAGAA AAGTTTCAGA TCATGAAAAA GGTGGGCAAG
103901 GAATGTATAG ATTGTTTACT ATTGGTTATT TATAATTGAG GGTCTACTTT
103951 ATTTGACCTT CACTCTTCAT TATTTATTTT TCCACTCTG TGTTTATTTA
104001 CATATTGCAT TATTTGTAAA AGGGTTTAAA AGTGAAATAA TATTTGAGAT
104051 AATTTTTTATT TTGTTACACA CAGAGAATTA GTATATATTA CCCATGATAA
104101 TAGCAAAATT GGAAATATTA GTTCCATGC TTTTCACTTT TTCACTGTGTT
104151 TGTGTGTGATT CTGGTATTCA CAATTGTTTG TAATTCCAAT GGCACATAAT
104201 AACATGCTTT GCTGGACTTA TTACAGAAAT GCATTAAAT AACAATTAAG
104251 TGATTTGGGC ATTAATTCTT CAGTACAGAG ATCTGTGTCC AGCTTTACTA
104301 TTTATGCAAT ATTTTATGT TAATAAAGTC ACTAAACAT TAGACAATAA
104351 GACTGGAAAA AATAACAAAT ATAATTAGCT GCATGTACAT ATGCGTGGAT
104401 CCTGTCATTT GGTGAAGCTC TAAACTCTT CATCTGTTT GAGGTGTTG
104451 AAGATCTAAA TCTGTTCAAA GTCAATCAGA GACTGATGGT AGATTCTAGG
104501 AGTGAGAATC AAGAAGTCTG ATTTAGCTCC CTAATTGTT GGCAGACTTC
104551 CACCATATGT CTTTGTATC TGCAGGAAAG AACTTCCATA ATTTCTCTTA
104601 AATCTACCCA GCTAATAGGC TGGGCATAGT GGCTCATGCC TGAATCTCA
104651 GCACCTTTGGG AGGCCTAGGT GGGTGGATCA CCTGAGGTCA GGATTTTGAG
104701 ACCAGCCGGC CCAACATGGT GAAACCCCAT CTCTACTAAA AATACAAAAA
104751 TTAGCCAGGC ATGGTGGCGC ATGCCGTGTA TCCCAGCTAC TCAGGAGGCT
104801 GAGGCAGGAG AATCACTTGA ACCCAGGAGG CTGAAAGTGG CAGTGAGCCA
104851 AGATCACACC ATTGCACCTC AGCCTGGGCA ACAAGAGTGA AACTCCGTTA
104901 AAAAAAATAA AAAAAATCT ACCCAGCTAA CATACGCTCT CTCTACTTGA
104951 TTCTTAGGCA TGTCCTTTT ATTCCAACCT GCTAAATTTT TCATGCAAAA
105001 TTGAGCTCAT AACTTTTCTG AGTCCTGTAT GTTTTCCCAT GTCCAAAAGA
105051 TAAATGATAA AAGAAGAATC TCTAATCAAT AATTTAAATA TTAATTTTAG
105101 GAAGTTACCA ACTAGGCAAA AATAAAACAA AAAACAAACA TGGTGCTTGG
105151 TACTAAGTCC TTTCATGAT TGTGTTTTC ATATTTTAGA AATTATTTAA
105201 CTATTTTATA CTCTCTGCCT GTATATTTAC ACTTTAAAC CCATTCTGTA
105251 ATTTTGTGTT TTTGTAACT CATTATTTAA TTATGCTCCA CTTTGTTCAT
105301 CAAAACCTTT GAAATGCCT TCTCTCACTC TATCATTTCTA TACTATTTCT
105351 TCCCAATGTA GAGCAGGAGT CAAATAAAGA TGTAAGTCTC TTTAATTCTA
105401 TGAACACATT CAAGGATATA CTAAAATAAC GTTTTAAATT CTCAATTTGA
105451 ATGATAATTA TATTATGTAC AAAGATTATT CACATTTTAT GTTTAAGTTT
105501 AGATAACACA AACTATAATT CTTAGGAAGA ATATGTAAAC TTTTGGGCTC
105551 ATCTGTTTCA CACTTACCGA ATTAGGAAAT GATCCTTGGG TTTTGTATC
105601 TAATAAACAT ACAGAACAAC ATTTGTGAT GGCTCCTGCA AAACACCACC
105651 ACTTAGCCCA CTGAAGTTAG AAAGGTTTCT TAGAGCTCTT ATTGGCAAGA
105701 TCAGCAGACA CAGACACGCA CAGTAAGACA CAGACCTGTA TCACTGAGAC
105751 TGACTCACCT TGTGGATTGC CTTTAACTAC TTTAAGTGA CAACGATTAC
105801 CTTCCCATGA GAGTCACATC ACTTATAATT AAATAACCCA ACAGAATTTT
105851 CGTAAGCTAA AAATGCTATT TGCTAAATAA GCTTATTTT TACTATCTTC
105901 TTTCCGATT TAAGTCACGG AAGTTTGTG TCTTATGCCG ACTAAATCAG
105951 AAAAGAATAG TAAACAACA TTAATCAATG TCACTAATAT TCTTACTTGA
106001 CAGAACTCA GTTTCTTTTA GTCCTCAATT TTTTTCAAA AATTTTATGC
106051 ACCACTTCAT ATTAATTACC CTGCCTATT TAGTTGAGTG AATGTAATGG
106101 CACATTATTT TAAGCCTCAA AGCCCAATCC AATAATCAG AATAGAATTA
106151 AAATTCACAA GATAAGTAA ACAATCTAAT GAGTTGGAAA AATTTCTATT
106201 TTAAGAGAAG TCTTCTTCAA TAATTTTCTT TCTTCAGTAA CTTCAGAAGT
106251 GTACATGTTG AATTTTGTG AAATACACAG TTATGTCTTC AGGAAGATTA
106301 CTGCTTAAAA AAATCTTACA TATGTACTTT GTAACTGTA AACCAGAATA
106351 CCTTGGTAT TGTTACTATT GTGATTTATA TTTGTAATAT TGAATACTAC
106401 CCCGGTCTAC TTTCATATAT AGAGTTTGCT AACAAAATAA TAGCTACTGT

FIGURE 3DD

106451 TTATGAGCAA CTCCTGTGTT AAACCTCTGCA TGTAGTGATT TCACTTAACT
106501 CTTTCAAACC TTAGTGGTAG GTACACCTAT CCCCATTTTA CAGATGGATT
106551 AAAAAATGAT GATAGGACAG GTTTATGTAA ATGTCTAAGG TCATACAGCT
106601 AATAAGCAGG AGAGCTACAA GCTAGCCAG GTCTTCTCT GAGGTATGAA
106651 GATACACGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
106701 TTTAACTTCG AAGCATACTA GAGAAGATTA ATGTAAACTT TTCTTAAATA
106751 GACAAAGACC CATGGAATTC TTCCTCAGCA GCATTTTCTA TGATGAGAAT
106801 GAGTCTAAAG AAAGAGGTTT CTCTTTGGAT TTCTTTGTG TCTCATGATA
106851 TGAAGCAAAG AAGTGATGGC ATTTAATGTT GACTCAAAC TGCAGGAAC
106901 GGAAAACTTT TAGTAGTGTA ATTTTATTT TGGCTTCAAT AATAACTCAT
106951 AATTTTGGAC TGATATATGA AATTCTAATA GTTCACATTT TAAGTGTCAT
107001 CATCTTTTGA CAAATCTGTG TCATATATTT TACTTCCGTT CTAAACTTAA
107051 GCTATCTTTG CAAACAATGG CAAAAATTTG TGAATTCGGA ATACAAGAAA
107101 TGTCTATGCT TTAGAATGAA ATTGGAGATA CTTAATGCTC ATATTCTTGT
107151 AATAACAAAT CAAAAATAAT TCAGTGTGTT TGTATACTAA ATAATGAATC
107201 TTTACTTGCA GATACTCTTC ATTTTCTTT AGACGCAAGG AGATTTTGT
107251 CATCCAGTAA GTTACTGTGG TAATGCAGAA CTCTGCTGTG ATTATTTTAA
107301 TCTGTGTCAGG TGGTGTGCTC TATATTTTAA AATACATAAT ATTGAACATC
107351 TTGTTGTTTA ATGCACTATT TTTTCCAAAG CTCCCCCAA AAGCTATATT
107401 TCTATTTACA ACATGTCCTT TATAATATTG CATGCTATTG ATAATGGTCA
107451 AGTTAATCTT ATCAAAATGC ACATTGACTC ATAATGTGCA TGCTCTGAGA
107501 ATTTGCTGTG TTCTCATGTT GTGTTAGATT TGATAGCAAA TTAAGTTTGC
107551 ACCTAGATTCT CTGTACAGGC TTCTCATCT GTTATCAACA TGACGCAAGA
107601 GTTGAGCTCT ACATCTGATG GGTGGAACCT ATATTTACAT TTCATACAAG
107651 CTCATTTTGG CAACTGTAGA TGGTTAACCT GTAAGGACCA AGACAATGAC
107701 ATTTCTTGTG CCCTGACTCT CTAGTGCATA CACAGAATGG CATATTTTCT
107751 GGAAACGTTA TTTCTCCACT GACCAATGGG TAGCCAACTG TGCACGCTTC
107801 CAGGCACTCC CCTGATGCTC AGAAATGCCA TTTGTATCCT GGCACAAACA
107851 TTTTGTGTTA CATTCTGAGA GTAGCATAGC AGAATATCAG CACTAGCAGG
107901 GACCCAGTAA ACTGATTGAG CGTCCCAAAC ATAATAAATT TCTTCATGCA
107951 AAGAATGTAA ATGAAGGAAT ATGAATGGAG GCAGAGAATA AAAAGGCATT
108001 TGATTTCAAA ATCACACGCC TTACTAAAGA AGAATCCGTC TTCATGAGCT
108051 ATAAGGCTGA ATGGGGCCAA AGCTCCTGAT AGTCTGGTTA ACCATGAATA
108101 ATACTCTGCA TTATTAATAA CAAGGAAGCC CGGTCTATTT CTAATCTAAT
108151 CACATTTAGC ATTTGGGAAT CATAAGTAAC CTTGTTTTAA CTTGAGATTA
108201 ACTAGTTACC AAGTTCCCAT TGACAGAATT AAAATACTTT AATGAAAATA
108251 CATTTCCTTC AGAGGACCTG CTGTATGGGG TTCAAACATT TGTCAAAGTA
108301 AGACACTGTT AAACGAAGA TTAAATTGAT CACATTACAC ATAAAAATATC
108351 AATTTTCAAC CAGCACTCAA AGTTAACCTC TGGGCCATTG CAGACTCAGA
108401 GGCGGTTTGG TTGAGCAACT CTGCTGAATG TCTTCTTCA TCATCATAAA
108451 ATAGAATCCT TTTCTATTC TTTTCTCCT TCTCTCTTC TCTCTCTCTC
108501 ACTCTCTCTC TCTCTCTCTC GCTCTCTCTC TCTCTCTCTC TCTCTCTCTC
108551 TCCCTCCTTC CNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
108851 NNNNNNNNNN NNNNNNNNNN NNTATTTCATT GAGTCCCTTG CTCAGGGCCC
108901 CATCCATCTC TTCACATAAC TTTGATCAGT CTCTTTCTCC TCTCTATCTA
108951 CAAATTCTAC CCTGTTGCCC CGGATGTAGC TAAACAATGC CCATGGTTTT
109001 CATTTTAGAA ACATGGTTGA CAAAAGAAGA CTCTGGCAA GAATATTTCT
109051 TCAAATGTGC TAATGTGGAA AGGCTTAGTA ATAAGGAAAA TTCAACTTCT
109101 GCCACACTGG GGATCATACC TCTGAGCTTT TTGACATCAG CAAGAATATT
109151 GCATTCACTT CTCATCTAAA AGGCCATTTC ATCTTGTTTA AATAAAAAATA
109201 AATAACAATT GAGGGCCGGG CGCGGTGGCT CACGCCTGTA ATCCCAGCAC
109251 TTTGGGAGGC CGAGGCGGGC GGATCACGAG GTCAGGAGAT CGAGACCATC
109301 CCGGCTAAAA CGGTGAAACC CCGTCTCTAC TAAAAATACA AAAAAATTAGC
109351 CGGGCGTAGT GGGGGCGGCC TGTAGTCCCA GCTACTCGGG AGGCTGAGGC
109401 AGGAGAATGG CGTGAACCCG GGAGGCGGAG CTGTCAGTGA GCCGAGATCC
109451 CGCCACTGCA CTCAGCCTG GCGACAGAG CGAGACTCCG TCTTAAAAAA
109501 AAAAAAATAA AAAAAAATAA CCAATTGAGT ATCTCTCAAG TGCTAGGCAC
109551 TGTTTTAGGC ACTGGGAATA GTGTGATGAG AAAGGAAGAA ACATTGCTCT
109601 CAAAGAGCTA TCCTTCAAA TTAATGCTTC TTTTAACTG ATTTGTCCTA
109651 CACATATGAG AAGATATGTT GAGAAGGTAA TACATATCAT TTACTATTAA
109701 TTGTTTCTCT GATTAAAAA AGTATTACAT GGCCAGGCGC GGTGGCTCAT
109751 GCCTGTAATC CCAGCACTTT GGGAGGTCGA GCGGGGTAGA TCCCTGAGG
109801 TCAGGAGTTC GAGACCAGCC TGGCCAACAT GGCAAAATCC CGTCTCTACT
109851 AAAAGTACAA AAATTAGCCA GGCATAGTGG CAGACACCTG TAATCCCAGC
109901 TACTCAGGAG GCTGAGGCAG GAGAATCGCT TGAACCCAGG AGGCAGAGGT
109951 TGCAATGAGC CGAGTTTGCA CCATTGCACT CCAGCTGGG CAACAATCGT

FIGURE 3EE

110001 GAAATCCCAT CTCAAAAAA AAAAAAGGA AGTATTCTAT TACTCACTTA
110051 TGGTATATTT CTCTTATAAA ATTTTAGAAT CAGCTGTATA GGACCAACCA
110101 TGGGTTAGGA TATTTTAAAT TTATATTGAG CACCACGGAA ACATCAATGA
110151 TTTGGTAAAA GAATACAGAA GGATGTGACA GAATGCAGAA GGATGTGAAA
110201 GAATGCAGAA GGATGTGAAA GAACAAAATA AAGAAAACTA ATAGGAAATA
110251 ACAAAAAATTA AGGCACCTTT AAAAGTATTA AAATAGATGC TTTGGATAAG
110301 CGATAGAATA TTGTAGAAGT AGATGTAATT TATGTGTCAT TAGTGACTTG
110351 ATGAAATATA TAACTAAAA ACTCACACTC AGTATCATAC AAAACTTGGA
110401 AATATTAATA TTGTACCAGA GAAATAGATT CTTCACAAAT TTAATCTAAG
110451 TAGCAAGTAC ATGCTATGGG ATACAAATAC ATATTTTAC ACCAATTGAC
110501 AAATTGAGA TTCTTTTATT TTTAACTTAA CATCACTGGT TAAGTAGAAG
110551 AAAAGTTTCT CAGTTTGTCC CATACCACTG GTAATGCTGG TTGAAGCTGC
110601 TCAGCTATAG GTTATCATCT GTGGCTCTCT ATTAGGACTA TATTTTAATT
110651 CCCTATAGAT TTCAACTAAT TGACCTTGAG GGAAAGCTGA GTCTCTGTGA
110701 CAATATGGTC TTCAATCACC ACTGCCAACA TAAATAAATG CTTCTTTCT
110751 AGATCCATCA AGAGTAATCT GAGTGGAATT TAAGTTTTT ATAGGCTTTA
110801 AAGAAATGAG TCCAGACGTG AAATAAGACA CTTTCAACC AAAAGGATAT
110851 AGAATTTAAG ACAGTTAAGA TTCGTGTAAT AAAAAGTGTT TAGCCCTTTC
110901 TATTGGAAT TAGTCAGTTA TCTTATGAA ATCTGGACAG TTCCCAAAAT
110951 GATTTATCCA GTAATGAACT GATTATAGTC TGACAGTAAC CTTCACTATC
111001 ATAAATGAAT ATCTACCAG TCTAAAATG CTTTCCATT AACAGTTTTT
111051 TTTTAAGTTT TTAATGTTT AATAAAAAGT TTTCTATTG AGTATGTTTG
111101 AGTATCTCCT TGGATCACTT CATTGAAAC TAGCACTCCT GAAATAGCAT
111151 TGTGATTTT CATGCACATC AATTTCTGTG AGTTTCTAGT GCTTATTAA
111201 GCAACAGTT TTTCTATTA GGAATTTAAT TATACCTCTC AGTGATAAGT
111251 TAGTGCATT TCCTTATAGT ATGTCCCAT TTCTTTTCTA ATTCTCTCTA
111301 TAAATCAGTC AAATTAATTT TTTGTATAT AAACATTAAA GCTTAAACC
111351 TCAAGAAAA ATACAATTTA GAATGTAGCC AACACCTAAG GGAGAAATAC
111401 ACCTATACAA CATGAGGCTA AGAACGAAAG CAATGATAAG TATACTACAG
111451 ACAACAATGA GGAAGGAAAT ATCTAACTTT TATTTGAAAT AGTCAGGTAA
111501 TGTACCTCAA AATGTCTTCT CAATTTGAGC ATTCTTAATA GGTATTGAA
111551 GATTTCAACT CACAAATGAT TGTGACATAA GTACAGACTA GAAAATTACA
111601 TAAAACTGG ACTACTAGAA GCTTTCTTAT CTTATATAAA CATAAATGTG
111651 AAGAACAGAT TCTAAAAAGT GATTGGATT AGATAAAAAA GAGTGATACA
111701 AAAGAAAATA AAGCCAAATC AGATTCCACC TCTCTTTTTC TTAAGTGTG
111751 TGCTATTTG TTTATCACTT GAGTAGGCAA GAGCAATTTT ATTGTTTATT
111801 TATCTAATCT CCTAACAAAG TACACCTGTT AATTATTAAC GTTAGGTTAT
111851 CTGCTATGGC TTTTGTCTAG ACTCACATGC TTTTGTGTA TAAATCTATT
111901 GATTATACGT ATTTAAAGCT TTGAGTTAGG ACCTCTTGAG AATTCTCAGT
111951 TTCTTAATAA TTTAGTGTGA AAATGTATTC AATTCAGATA TTCCCTCACA
112001 ATAAAGCCAG AATATTCATA TTTTGCTTTC TGTGTATCTT AATCTGAATT
112051 CATCCACAAT TTTATATTG ATATGTTTTA TTTAATGTTT ACTGTGAATA
112101 ATGTTATGAG GGACATCTAG TAAGCCAAGT GTTAATCCTG CCCCAGCCCT
112151 GAAGTATATA TGAGCCCAA CACTGTATC CTTAATGCAG GGAATTAAAT
112201 AGCCATAATA CAACATAGAA GATGATTTGT CCTTGGAAT TTGATTTTAC
112251 AGGCAAAGGA AATTATTTT TTTTAGTAG AACAGAGTAA GATCGATAGG
112301 GTTGTTAACA TTTGAATCAG GTATTAAAGA ATAAGTAAAA TTTCCGTTGT
112351 ACGAAGAAATG CCTGGAATGG TATAAAATG AGAGGGAGGG ATATATAGAG
112401 AATATCTGGA GTGCAACAG GATGCATGAA GAGGAGTTAC AAGGAATAAT
112451 GTCAGAAATG TGGGCATGGT TAGAAATGTT TTACATGATT ATATGAAAC
112501 TGAATTATTA TGGTCATTGT ATTAGAGATT TGTTTGGGAT CTCGAATTGA
112551 GAGCTAGAAA TCCAGACTTG GATTGAAAG CTAGATATTC GTGACTACTA
112601 TATTTTAGCA CAATATAGTC TATCCATCTT TGAGTAAAT TAAGAGAATA
112651 TTCTTTTGA AATAATGGA AAAATCCCTT CTTATATCA GTATCAATTG
112701 TAGAACAGTA TGGATAGGAG CAGCTTGAGA TGAACAACT AAATTAGCAA
112751 TAGTAATTAT CATACTATTG ATAGTAACCA ATACTTATGT ATTGCTTACT
112801 AAAGGCAGAG ACCTTTAAAT ATATGAACTT AATTTAATAC ATTTCCCAA
112851 CTAGGAACT GAGGCACAGA AAAATTAAGT ATTGCATATG ATAATATAAC
112901 TAGTAATTGT TCAAGCAGGT ATTTGAAACC AATAAAGGCA TCATATTTTC
112951 TAATAAGGCA ATAATTCACA AATATCCACC CAAACCATT ATAGCCAGTT
113001 ATGGTTTAAA ATGCTTTTAG GCGGACATCA TGAAATGCAC ATCTTTATTA
113051 TCCCCCTTGA AGGGTGAGGG AGCTGGGGTA TTTATCCACC AACTCTGGTT
113101 AGTCATTGGT TGATGGATGT TTCTTGAAT ATTTACCTC CGATGCTTCT
113151 AGCCTGGATG CAGGAGACAC TCGAGGAGAG TGGCAGGTCC TTGTAGTAGG
113201 AAACATATCT CTTGCATGCG AATGTTGAGT GCCCAGGCGA TGTGGGTTAG
113251 GCACCAATGA CATCTGCACA AACTTTTAAA AATCTGAATT TCACAGCACT
113301 TAATAAATTT ACATGATGT ATTTCTGCGA AAAAAAAT CTTTAGGGAG
113351 AGATTTTAAA TGCAAAATGA ATTAAGAATA GTGAACAGC AACTTTTGGT
113401 AGAGTTTTC ACTGAAAAGA CATGAACTTA AAACAAAAA ATGTATATTT
113451 ATTCAATTAA TCATAACTTC TGAAATGAAG AATAGAGATG ATTAAGAAG
113501 AGCAATAATA TGAATAATAT TTTGCTTTAG CTATTTCTTG CTCACCTTTC

FIGURE 3FF

113551 TTTAATATGA TTATTCACAT TTAATGTCTC TTAGGGATTT CACAAATGTA
113601 TACTGATGCT TCAAAATGGTT TATFGACATT TTCCCAGAAA CCAACATCTA
113651 CTTTAGATTCT TAGTTATCTC AGTAAAAATA CTTTTCAGT ACCGGCTCAA
113701 ATGATCCTCT AGGAAAAAGG AATCTCTCTG CGATGGGTGG CAGTCTCACT
113751 GTCCTTATAT AGGTGGACTA CTAGCCTGTC ACTAAATCAT ATATATTGTG
113801 CTTAAATTTT GCCAATCACA ATGGAATAAT ATTTGCTGTT ATTATAAAAG
113851 TTATTTCCAC AAAGTTCAAG AGTTTCTATG TCCATGTGGT AGCAGGGAAA
113901 TAGACCTTGG TAATCAAAGC ATCTCAGTCA TTTATATCTT AAGTTCAGTT
113951 GATCAGAATT TACCCAACAC AACCTTCTAT TCTTTCCTAT TTCTGAAGAA
114001 CAAGGTATCA TAGGGGCACT GGGCAACAAG TTATCTTAAG GGAGCTAGGT
114051 AGTATGTGTG GATGTAGCCT GTAGTTTATC TTTCTTTCTT GCTGGTCTTC
114101 GCTGAGGGGT AATTATTTTT AACAAAGATT GATTGTGGCT TCAGTCCCCA
114151 CTGCAACTGT TACTATGTCA GAGATATTTT CAGGGCCTCC AATATTGAGA
114201 CATTCTATTT TCCCTTCCCC AAATCAAAGA TTCTTCTCAT TTGGTAGCCC
114251 TTTCAGCCAT TCCCATATCC ATCTAGAATA AGGAATTCTT TCTTGCTTTC
114301 TTTAAATCAC TCTAGGGTAT TGTGGGGCAC TCTTAAGCTT ATCCACCAAG
114351 ACTCTTTGTT AGTCACTGCT ACTTGTGCAC TTAGATGCCC TGTTTGCAA
114401 TGGAATAGTC TATCACTTTA TGTTTACCCT GAGAAGCTGG AAGATACAAC
114451 ATCTCTTTCT TATCTTTTCT CACTGGGGG CACCATCAT TAACAGAGAA TTCTAACATT
114501 CTACTTTGTA ATACCTGGTC CAGCATCCCC ATATTTTTCA ACAATTCCTG
114551 TATTGTAATG AAATATACTT CCTTTTAAAT CCGTTTTTCT TCATTGAATA
114601 CACCTCTTTT TGACCATTTT CATATTTATT ATGCTCTGTT TTTCAAACCA
114651 TTTTCTTTCT TTTATTCATT CTTTGCTTCA AAAAACATAT CTCTTACAA
114701 ATATCTTCTA ATTAAGAAT ATAGTAAAT CCCTAATATT ATTCTAGATT
114751 TAAACCTTTG AAAAAGTCAT ATGTTCCCTA GTTCATTTCA TTATATTTTG
114801 TGCCTTTTGT GTTTTTTGCA GTGCTAATTT GTTGTGCATG ACGTAAGTGT
114851 TATTAATGAT ACGCCCTCT CTAAGTTTGT GTATGTTGTG TAGCCTATTT
114901 AGCTGTTAAA ATTATTTTTG TTTACAGAGT ATAAGTAATT TGGCCAATGA
114951 TCTGTACAA AAGATAGGTC TAAATAATG GAAATAGTTA TAATTTGTTG
115001 TTGCTGTGTA TTTATCCAAA CTCACTCATG AAACAATACT TAACCAATGT
115051 GATGTGATGT TTCATGGATT CATCTGTCT GGTCAACAC TTCTATATA
115101 TAGAGGAAAT ATTTTTAAAA TCCACATTAG CTCTTTTAGA CCACTAAATA
115151 CCATGCAATA TATTAAAAAG TGATCTATTT TTAATGTAGT ATCCTAAATG
115201 CCTAACATTT TTAAGCATTT ATAATGACAT TTATAATAAC AACACATCT
115251 TTTCAGCTCG AGAAGAATG TAAATTATTT GCCATGTTG AGTCCAAATA
115301 ATGTAATTTT AAAAAAATAA ATAAAAATTA AAATAATGAT CATATATTAG
115351 TTAAGGCAT AGCATTATTT ACATTATTGA TTTATTATAA TTTTCTGACT
115401 TTAATCTACA CTCTTTTCAG AATTAGCTGT CCACTCTGAC TCACAATGCA
115451 TTTAACCAA GTCTATTGTC AGGTACTTGA GTTATAGAAA ATCCATCAAG
115501 TAAGTTTGT AAATATTTTC TTTCTTCTTT TTGAATATCA AAGTTAGATG
115551 CACTGACTCA GTAGAACCTT AATGTGTGAT TCACCTTTTG TATGTTTGT
115601 GGAAAAACCT CCAAGCTGGA TATAAATCAT AAAAGCATGA CTAATTGCAT
115651 GGTAACTGGA AATATGCTTT CTCTCTCTCT GGGGTGAAGC CTGCATGTCT
115701 GTATTTTAGC TTGGGAAGTA ATACGGGGAT ATTTAAACTC CTGGGGTTT
115751 GAAAACCATG TCATTATGAG AATGAGGTCA CTGCAATATT TTATATCTTC
115801 TAAACCTTGT TAATGTATAA AATGTTTTCT GTCTGACAAA GAGGTATTAT
115851 GTGCTTTAGG AGTCAATGAT AACTTCATGC CCTTACATTT ACTTGAAAAA
115901 TTTTCTTCAT TAAAATGCTA AATCCTTTAT TTAATGTCAC TAAAAAATTG
115951 AAGGAATTTT GTGCCATGAA TACAAAGAAA GTGAGCTTAA AGAAGAAAAAG
116001 TTAATTTTAT AAGTATAACA GAGTGACTTT AAAAGCTGT GTTGTGTTG
116051 ATTTTGGGGA TGTCCATTGT TCTTTAACTT GTTAAAAAGTG AAGCCAGTGC
116101 CAATGCTAAC GCGAACAAAT ACAATCTAAC ATGACCCTAT TTTATACCTT
116151 TCTTTACTTG GAGGCCAATA AGCAAGAAAT CCTTCCTGCA ACATGTTGAA
116201 GAGCTTTGCA CAAACAACAA CCTAAAGTTT CAAGAAGAAT TTTCGGTATG
116251 TTAGTAGCAG TTGTCAACAC ATTGCAAGAC CTCCAGTCGT TTCATGTGTC
116301 ACATTTTCATG TCCATTTTAA GCAAGCAAGG CCATGAAGGA CTCTGGCCTT
116351 GATAATCAAT ACCCAATTAC CAGGTGATT GTTTTGATAG TAATGTTACA
116401 CTGGGCCCGCC TCTGGTGCAA CCTGATCAGA ATTATTCACC TACTGTGTCA
116451 GGAAAAGGTG GTCTTCTTCA GACCTCCCTT GTATTGGCAG CATGACCTTG
116501 TCTATTCTCT GCTCTTTTCT CCAGATGTAG GTGCAATGT AGAATGCCAT
116551 ATTCATTAGT TTGTTTGTGA TTCAAGGTTT AGGTCATACT ATAAGGTAG
116601 TTTTATATTT AAGTAATTAT TTTACATTG GACACTAAAT TATTTCAATT
116651 TACGTTTACC TACTTGGTTT ACATTAGTGA TATAGATGAA TGTGAGATCA
116701 AAACCTGAAG CTTCAGAAA CTATAAGAAA ATTATTTCTA GAACTGTCTA
116751 AAAATAAAAA AAAAGATAAG TAATGTCCAC GTTTTACAGG GGGCCTTTTT
116801 AAAGTTACTA TGGAATAAAT GCTGTATCAT ATAATGAAAA TGTATAAAAT
116851 TAAGAAATTT TCACTTTAAA TCTACTTAAA AGTTGGGAAT AGTTTTTTTT
116901 TTAACATTTT GTATATCTAT AAAATTGAAA TTATTTAAAA ACATAAGGTA
116951 GATATCAAAAT CTTCAAGCTA CTTTAAAGAGT TATAAGCATC TTTTCTAACT
117001 TAGATGATTA TTTTGTATT AAGAAAGACA GATTTCTACA TGTACCCAAA
117051 AACATTATTT CTATTTTATT TTTTCCATG AAATTTCCAG TGTGTGAAC

FIGURE 3GG

117101	CCTGAAACAA	AGAATAAAAC	AATTGGGTTA	AATAATTCAG	AATTATAATA
117151	TTTCAGTCTC	TTAGGGAATA	ATAACAAAAA	TGAGAGAAGA	TTAATGGTAT
117201	TTCTGCAGC	CTTTTGGTTA	TGCTTCTTAA	GAAATATTGG	TCTGGACTTA
117251	ACAAAATCAA	TAGTGCCATA	AAATTCCTCC	TAGCATTTAG	ACAGCAAGAA
117301	TTCTCAATTT	TTCAGGAGCA	AAAGTGTAA	TTCCCTAGAA	TAAGAGTGAA
117351	TGTAATTACA	TTATGCATGA	CCAAGTAGAT	AAAAAGTTTT	ATTAGCAATA
117401	ACATTTTCAC	ATATATGAGA	AAGTTTCTAG	TTTAAGTTTT	TTGAAGACCA
117451	TAGTTTGAAG	AACTTTTAA	AAATTTTCATT	TTGTCTAATG	CTTTGTTAAG
117501	AAATTTCTAAA	GCAAATTATT	AAATTATGTT	TTAATAAATA	CATTTTGGT
117551	GCATATATTT	GATAAACCTT	TTAACTCAGG	ACATATTCAC	TCATATCTTA
117601	AATATTTATA	AGTTCCCTACT	ATGTGATAGG	CATTGTATTT	GGCACATACA
117651	ATCAGCACCT	ACCAGCTAAG	TGACTTTGGG	CAAATTTCTT	AAACTCTCTT
117701	TGCCTCAATA	TCCTTCATTG	TAAAAATTATA	ATATCTACTT	TATTAATAATTA
117751	TGAAATATAA	ATGATTGAAT	ATAAGCAATA	CTAAGAACAG	TAGCTGGCAC
117801	AAGTATTAGC	TATTACGATG	ATAAATCTA	CCATAAAGAA	GCTCATATTA
117851	TGGTAAGAAC	TGCAGATGTG	TAAAAATTGC	AAATTTACTG	TATCTTGATG
117901	GAGATATGCA	TGAAGATTGA	GGATCAAATC	TGTTTGTATA	TCAACCAGAA
117951	AAGAGTTTAT	AAAAAAGGTG	TCTTTCAGGA	TGAACCTTAG	GATGAGCAGA
118001	AGTCTAATGA	GAAGGTAAAG	GAAAAAAGGT	GTTCCAGAGA	CAGGAAAAGG
118051	ATAGGAATGC	AAAAACGGTC	TAACTCATCT	GTGGTCCAC	TGAAAAGAGA
118101	GAAAGCAATA	GGAGAAAGAG	CTAAATAGGG	AGAATTGTGG	CCTTGTGCAC
118151	CCTGATAAGG	ATAACACTGC	CCAGTGTAAC	ATTACCATCT	AAACAATCAA
118201	CCTAGTGTGT	AGCATTGCT	TACCAAAGCC	AGAGCTGCTT	AAGCTAGAAA
118251	ATGGAACCTT	TTATGTGAAA	TAATTATAAA	ATATAAGTGC	TCTTTCAGTC
118301	TATTTAACT	CACCTTTTTT	CTCCCTTCTT	TATGTATTTT	CAAACTTTG
118351	ACACAAGGAA	GCTGTTCTAG	GACTCCTTAT	TGGGTTAAAA	AAATTTTGTA
118401	AGCCTTTGGT	GCCAACACAT	CAGAATTCAG	ATCTTACACC	ATTCTGTGCC
118451	CTTAATACAT	ACCCATATGT	AAACAATTGT	CCAGATTTTA	ATTTTGAGAA
118501	AAAAAAATAA	GAAAGGGAAA	CTTATCCAAT	TAAAAGAAAT	AATTTATATT
118551	GATGTTGAAA	AATTGTTAAA	ACACATATTT	TTAGTGCTTT	TTATGGAATT
118601	TGGCAAGTTG	GAATTTCTAA	AATGGAAAA	TATAAATTTT	ACACATGTAA
118651	ATTTTCAGCT	CAACAAAATA	ATGAACATAT	TTTCTTATGC	CAGACTTTTT
118701	AATGATGCTT	GCTTTGCCAA	GAGCAAGGTA	GATAGATAAT	ATCATAAATT
118751	TTCATCAAA	TGCAATAATA	GATCTTCTTG	ACCCTTCATC	TATATCTGAT
118801	AATTCCTAAT	GTCACTTTG	CATTCCATTA	TTGATTTAGC	AATGCTTATT
118851	AAGAGCAGGA	ATTGACCTCT	GGCATCTTCT	CAAACGACC	AATGTTGTAC
118901	CAATTAATAG	GCATGAAATC	ACACTGCCTG	AGGAGAGAAA	ACAAAAATA
118951	AATCATTGAA	ATCCCTTTTC	CTACTAAGTA	GACATTAATA	TATTAACAA
119001	TAGTGTGTAC	CTAGTAAAC	CATTAGTAAC	ATATGTAAAA	TGGTCACTAA
119051	CATGGTTGCC	ACATCTTAAG	GCTTCCCAA	GTGCAAAGAA	ATTATCTCCG
119101	AAAGAGCAAA	ACCCAGCTGA	CCAACCTTAT	TCAGGATATT	TTTGGTGAAA
119151	GCCTAGGTAA	ACTCATTACT	GTTAACTTGA	CCTTGTTC	ACAGTTATGA
119201	TAGGTGTTTT	TAATTTAAAA	ATTAAAAAAA	AAGTTTAGGA	CRAATAACTG
119251	TCTTTTAATA	AGTGAAATTT	CTTGTTTACC	TCTGATAAAT	GTAACTTTG
119301	TAATGACTTT	ATTTTACAGG	AATTACCAAA	ATTTCTTCAG	GATCTTTCTT
119351	CAACTGATGC	TGATCTGCCT	TGGAATAGAG	CAAAAAACCG	CTTCCCAAC
119401	ATAAAACCAT	TGATGTGCAT	TTGTTGGTTT	TGGTTTAGCT	AGGAAATATT
119451	TTTAAATGCC	TACCATCTTA	ACTTTTTTGT	TTCTTAATA	TATTTTATTT
119501	TATATTGTTT	GAATTATAAT	AATGTATTTT	ATTGGCAGTG	ACTACCAAT
119551	TATATATCTT	TGCTTTGTT	CATATTTAAC	TAAAGTTAGT	ATACGTGGTT
119601	TTCAGTTTGT	TCACACAAGT	TCACTTATGC	AGGTGCAAGA	AACGTGAGAC
119651	CTAATAGTTT	CTTAGCTTTG	TAATTAAACC	CAAGTAATGA	ACCTGTTTAA
119701	CATCTTCCTA	CAGACCTAGC	ATCAAATGCA	AAGGGAATAT	TCTCACTTAG
119751	CTTTGTGCAT	TAGTTTCCCT	TCACAGCATA	GCAGTGTTTT	CCTATGGAAC
119801	ATAAAAAAAA	TGCATTGTAA	AATATTCATT	GAAGACCAGA	GTAAATGCGC
119851	ACTTACATGA	ATTCATTTTA	CATATGAGGC	AGAATGAGCT	TCACCATAGT
119901	ACATACAGCT	TCATTTTTC	ATCAATAAGA	AAATAAACAG	TGTATTGCT
119951	TAAAGAATTA	ACAGTGATGT	GAAAGGAAAA	TAGGACATTT	CTCTGTTACT
120001	AATAACTATA	TGTTTGCTAT	TATATTTTTG	AACAGATATC	CCTATTTTCA
120051	ATATTCTGAT	TCAATACATT	TTACACTATG	AAATTAATAA	GTGACATTGT
120101	GATGTCCTGA	AACGTTTCAA	AGTCTAGAGT	TTTGAAATGT	TCCCAATTTT
120151	AAAGATAATA	TACATCTGTG	TGTGTATATA	TATATTTTTG	TCTATGCTTT
120201	TTCAAATGTA	TATTGGGGGA	ATAGCTACAC	TTCTTAATAA	TTGAATCTT
120251	CTTTCTAGAA	AGACGTAGAC	CTAGAGAAGG	ATGTGATCAT	AGAATGTGCA
120301	ATTGTAAGG	ACATGCATAG	GAAGAAACAG	ACCAAATCT	GATATTCTAG
120351	AACTAGGGAA	AGTTTATGA	AGTTCACGAA	GGAACAAAT	GTAAGGAAAC
120401	ATGATATAGG	AAGTAGTAAT	CTACTAGAAC	CTGTTAATTT	CTAAGAAGTA
120451	GAATAGGATG	AAAATACAAA	TAGCTTTAAC	CACCTAAATC	CTTTCTGCAA
120501	CAAAACAAAT	CATAAGTAAA	TGATTTTAAG	AGCAAGATAA	CAAGACTCAG
120551	TCAGAGGAAA	TAAACATTCA	TAATTTCTTT	TTCTTTCTTT	CTTTTCTTCT
120601	TTCTTTCTTT	TTTTTCTTTC	TTTCTTTTCT	TTCTTTCTCT	CTTCTTATC

FIGURE 3HH

120651	TCTCTTCCTT	TCTTTTCTTT	TCTCTTTTCT	TTTCTTTCTT	TTTGGACTTT
120701	TGATCTTGTT	GTCCAGGCTG	GAGTGC GGTA	GTGCAACCTT	GGCTCACTGC
120751	AACTTCTGCC	TCCTGGGTTT	AAGCAATCTC	CTGCCTCAGC	CTCCCAAGTA
120801	GCTGGGATTA	CAGGCATGTG	CCGCCATGCC	CAGCTAATTT	TGTATTTTAA
120851	GTGGAGATGG	TTTTTCACCA	TGTTTGTCAG	GCTGGTTAAA	TTTCTAAGAC
120901	CAGGACATTT	TTCAACGCAT	CCTTTTATTC	TTTCTTTTAG	AGAGTTAACC
120951	TAGGTTGGAT	GCAATGTAAG	TATAAAAAGT	ATGGACATTC	CCATGTCTTT
121001	ATATTTATCT	GCACCTAAAT	TTTCAATGTT	ATAGAATTAA	TGGCCTGGCG
121051	TGGTGTATAT	CTGTGAAAAT	AAATACTGTA	ATCTGATTAA	GGGACAGTAA
121101	CTGTGGAATA	ATTAGTATTT	TTTCAATTGT	ATAGAATTAA	TGGCCTGGCG
121151	CGGTGGCTCA	CGCCTGTAAT	CCCAGCACGT	TGGGAGGCTG	AGGCGGGCAG
121201	ATCACTTGAG	GTCAGAAGTT	CAAGACTAGC	CTGGCAAAATG	TGGTGAAACC
121251	CCATCTGTAC	TAAAAATCCA	AAAAAATAAG	AAAAAATTAG	CCGGGCGTGA
121301	TGGCAGGTGC	CTGTAATCCC	AGCTACTCGA	GAGGCTGAGG	CAGGAGACTT
121351	GCTTGAACCT	GGGAGGCAGA	GGTTGCAGTG	AGCCCGAGAT	CGCACCATTG
121401	CATTCCATCC	TGGGTGACAG	AGCGAGACTC	TATCTCAAAA	AATAATAATA
121451	ATAATTAAT	TATAATATAT	CAGTATATAT	AAAGTAAGTA	ATTCAAATAT
121501	GTCTAACTTA	AGTGTCTAAT	TTGAAATATG	TAAATTTTGA	
121551	TAGATCAGAA	AGTTT'TTTG	CTGTGTGACT	TTTNNNNNNN	NNNNNNNNNN
121601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
121951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
122301	TTTAATAGAA	TTTGAATTTT	AGCTAATAGA	ATTGGAATTT	TAGCTTGAGC
122351	CAGCTAAATG	AAGTCCATTG	TTTCTCTCCC	CCTGAGTAAT	GTAAGAAGCA
122401	GAATGCCAAA	TATCAGAGCA	TGTTT'TAGAA	GACATTAGCT	TAAAACACTT
122451	TAAGATGCTA	GAATTAGCAG	CAAACTACTTG	CAGAAGAGAT	TTCCAAATCT
122501	CCGTTTGACA	GACGACCTAT	GACCTTCAGA	AATATTCCAA	CACCACAAG
122551	AAAAGTTTAG	CTTGTAGTTG	ACTCAGATAG	TTATAAGGAG	GTGTATCTAG
122601	TGAATAGAAA	CATAATGATT	CTCTTCCTTA	GTAACAGGAC	TAGTTACAAT
122651	GTCATTAAAC	TAGATCATAT	AAAAT'TCTAT	ATTTGGGACA	TAAATCATTT
122701	GCAGAAATGT	GT'TTAATCAT	TCCCATTTCT	AAACATAACC	ACATTGGGCA
122751	AGTAATTGTG	ATTACTAACA	ATACAACATA	TTCAATTTTAA	CATATTATGT
122801	GCTTAAGTTT	TAAGAATGTA	AGAACATGTA	TTGAGTGCCT	ATTATAAGCT
122851	TTCATGTAAA	TTTTCTTCAA	GAGGATTATA	CAAAATCTGT	GTTATAATGA
122901	CATCTTGTAG	CTGAGGTAAC	CAAGGAGCAG	AGAAGCTTAG	CAATTTACCC
122951	AAGCCCATAT	GTATGGTAGG	CAGATCATCT	AGAATTCAGA	CCCAATCCTG
123001	TTTACCATT	TTTCTCTCCT	GAAAACAAAC	AACCCATCAA	AACAATTAAG
123051	TAGTGGATAT	TTTATGTTTA	GTAAAAATC	ATTACTGGAT	GTTTCAATTA
123101	TAATATCAAC	TTGGTAAAA	TTCTCAGGAA	AAATAGTTTC	TGACATTTT
123151	CTCTGAAGAA	AAGTAATGAG	TACAGGGTAT	CTAGTTT'TAC	TAGCTCTTAA
123201	AATATTCTAA	AAAGTAGTAA	TTAGAAATTT	GAAAGAAAGA	ATAGGCAGAT
123251	GAATTAATGG	AAAAGAAATGA	ATGGTCTAGA	AATAGACCTA	ACTACCTAGA
123301	AAACAAAGTG	GTGTTCCAAA	TCAGGGACAA	AAGATGGAAA	TGTTAAAAAA
123351	TTGATACTAT	TTGTTGT'TCC	AACGACANN	NNNNNNNNNN	NNNNNNNNNN
123401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
123751	AAATCAAAAT	AAATATTATG	AGACATCAAT	TTGTATTTGT	ACAAAGAACA
123801	TAAAGTGT'TT	AATAATACCT	TGTGATAATG	AAAGTAAGAG	AAAACAGAA
123851	TTTTCAAAAC	CTTTGGTTCA	GAGTATGAAT	TGTTAGAGAA	CAATTGAGAA
123901	ATGTTT'TTCA	AAATTGGGAA	TGCATATATA	TAAATCTTAA	AAATTTTACT
123951	GCTGGTAGTA	TATTCTACAA	GTACACTCCT	ATATATATGC	AATATGCAAA
124001	AATTTCAATT	ATATCTATTC	AACATTTTAT	AATTACAAAG	TGAATCATTT
124051	AAATAATAAT	AAAAGGTTAA	ATAACTACAT	TATTATATAT	TCAAACAGTG
124101	AAATAC'TGTA	TAGCTTTTAA	AAATAATTAA	CTACATATCT	TTGTTTATGC
124151	TGATACGGAA	AGACATAGGT	AAATGAAAAA	AACGATTTGC	AGAACAGATT

FIGURE 3II

124201	GTATATCACT	CCATTTGTAG	CTAAAGAAAA	TTAGAATATA	AAGAATATGT
124251	ATAGAAAAAT	CTGGAATAT	ATACAAGGAC	ATATTAATAG	TCATTGTCTC
124301	TGGGTGGTAG	AAATATGGGA	GAAGAAATAA	CTTTTAAAAA	TTTACCGCCA
124351	TCTGTGAAAT	TGGAATGTTA	TATTATGAAC	TCCTTTGTAT	TACTTTTATA
124401	GTAATAAAG	TAGTAACAAT	TAAAAAAGCC	AATTAACATT	GATTCCCTAT
124451	ATTTTCTTCT	AGATAATAAT	AACAGAGTAA	AGCTGATAGC	TGACGCTAGT
124501	GTTCCAGGTT	CGGATTATAT	TAATGCCAGC	TATATTTCTG	TAAGTTACTA
124551	TTTTATATAT	TTTATAATTG	TATAAAACAT	AATTACTGAA	ATTGTATTAT
124601	CTTTCCAATT	ACTTAAACA	ACAAATTTAT	TACAACCTCT	ATGGATCTTA
124651	ATATGCTAGT	TATTTACAGC	CACATTGTGT	ACCCTTATTT	TATAGATGTG
124701	GATATGGATA	TGCCTAACAG	AGATACTAAC	TTATCAAAAA	TTATTTACC
124751	AGTGCGCGGC	AGATGTTCAA	CTTCAGGCTA	CACATCCCTG	ATCTTTCCAC
124801	TAATTCATAT	GCTTTGTAA	TGTATTTCTCC	ATATGCAATG	AAGTTTGCCA
124851	ATCTCTGTGA	ATTAATAAAT	ATCAAAATGGA	CAGTTATGTC	CATATAACAT
124901	GAAAAATTTAT	TATGCAGCTC	TTCCCTTCTA	GATCTGCAGT	CCTCAAGCG
124951	GGTAATAATG	CCATCACCAT	CATAGGTACA	TTGAAACCTT	ATATGCACTC
125001	AAGATCTCCA	CTTGGTTTGC	AAATTCATGG	AATCTTAAAG	AAGGAAGTGC
125051	CTTGAATTTG	ACCATTACCC	TTGAAACTCT	AAAAAATTC	TGTCAGCCTC
125101	TTTTGGCATT	TATTCATCCA	CTTCTTCTTA	AGACGGGATT	CTATCTCTAA
125151	ACAACCTCTGC	TTTACAGTTG	TTGGGTTTTT	TTTTAACCAA	GTTATGTCTC
125201	TTTATATTCT	TACCCACTGA	CTTAAATTCT	AATGCATAGC	AAGCTTAACC
125251	ATCTTCATTA	TGGTGAATCT	ACAAATACAT	GAAGATTTCC	TCTGCTGCCC
125301	ACACTCTCCA	TAGGCTTTTT	CTTATCCATA	GGTCTTCTCA	TCCATGCCCT
125351	CTATTTCTCT	CAGTTCTATT	AAGGCTCTTG	TTATATGACG	TTCCACCCTT
125401	TCTCCAACGT	CAACATACT	TGTGCTGTGT	CTCATTCCTT	CCAAGCCTTT
125451	GTCATGGAGG	AAAAAACGA	ATTAGTTCTA	AATCTGATAT	TGGTTGTATA
125501	CTAATCTAAA	ATTACAATCA	TATATTGGGT	CCTGTTGTCA	AAGGAGTGAA
125551	TAATGGGAGA	ATTTAAGACT	TTAAGACTTT	TTAACAGAG	AAGTGAAGGA
125601	AAGTTTAGAG	AAGCTAAGGT	ATTCTTTAAA	TTTCATTCTA	TTTAAATGCT
125651	AGAACCTTAA	ATCTGTATTT	AAAGAATTAC	ATGAATTTAC	TATTATGGTA
125701	ACATTTTATT	CATTTATCAA	ATGATTGATT	CCCTCTAAAA	TGTAATTCAA
125751	AATGTAAACA	TTTTGGTGAA	ATCTTATGCT	TACAATTTCC	ATTAAAACT
125801	AAACTCTACA	GCATGTTAAA	GTTTTACTTG	GATTTACAAA	ATGATGCATA
125851	TATGCATTTA	GATATTTACA	TTTCATCACT	ACTCTGATAA	TCAAATGCCA
125901	TCAAGCAGGA	CAAGGACAAC	TGGTTGTATC	AGTGACCTAT	TGATTTGTAT
125951	CATTTTTTAT	TCACCAATAA	GATAGATAAA	ATCAACAGCT	CATATTGTCT
126001	AATGTTCCAT	AAGGCATGAC	AGTACAGGAT	ATGAATATAA	TTAAGAAGAA
126051	AAACAGACAA	TTTTAGTAGG	TGTAGCTGAA	CCACACAGAT	TATGTAAGCA
126101	AAGTAATTTT	CGCAAAACCC	CAGTGTCCCT	TTGAAATATG	GTAGGTTGTC
126151	AGCATACAAC	TATGAGCAAA	TGATAACGTG	GTATGAGCAA	TAAACTAGGA
126201	AGCCTGAAGA	TATATATTCT	GCTGTAATCA	AGTGATGTTG	TAATATAATA
126251	AATCTTACAA	CAACGTCAC	ATGACCCAAT	GTAATGATAT	GCATAATCAT
126301	TGCTGAGCTG	CATGGTAAGC	AGGCTCAGAT	GGAAGGCACT	TTACAAGAAG
126351	GCGGATTCTT	ATATTGGGGC	TGGCAGTGTA	CTGTAGCACT	CAGAGAAATC
126401	TCCTTTGCTC	AGGATGTCAA	GAACAGATGG	GAACAGATGT	AGCAATGATA
126451	CTGCAGTGCC	CCTCACTTTC	CACCTACGTA	TTCTTACAAT	CTTCACCTTA
126501	GAAAGAATGT	CTGGTATATC	AATTTCCGCC	TACCCCCAAA	TTTTATTGCA
126551	AAGCACTTCC	AATTGAAAGT	TTATGAACAC	TTGTCCCAGG	AGCAAAAGAC
126601	AGAGGTCATC	TATGAATGGA	TTCCGGGTTT	CAATTTCTTT	GGAAGCTATG
126651	GCAAAGGGAA	GAGAACTATA	GAGGGAGGTA	GGAAGAAAG	CAAAATAACT
126701	AGTGTTTACA	TAGAAACATG	AAAAACTGAA	GTCTGGGGAA	GAGACAGAGG
126751	AGGACCAGCA	TATGGTCTGA	GGGATGTATG	TTAAGACTGG	GACCCTCCAG
126801	CCCAGGGTTT	ATAACTAGGT	TAACATGCCA	ATGTGTGTTT	TCCTCTGCCG
126851	TTGGCCATTTC	TCGAGAATGG	TGCTCCGAGA	GTTAGGACTT	GGAAAGGCTG
126901	GAAGATTTTG	ATGAAGGATA	GACTGTGAAA	GAGGTAGGAA	GAAGTGATAT
126951	TGCAGCCCCA	TAATCTGCCA	CCAACGTGAC	AAATGAGTTT	AGAAAGGTTT
127001	TCAAGAGAGT	CAAAAATGAA	AATACTGTGA	TTTTAGGTAT	AAGAGGAAGG
127051	CTTATAATTA	ATTTTGAGGA	AGGCTCGTCA	AAATTATCTC	TCCTGTCAAT
127101	TTCAGATGCC	TGCAATTACT	TTAATTTGAT	GACAGCTTTT	AACACAACTA
127151	GAGATTAAAG	GCTATCATGC	AAATGGTTGC	AGTAACATTA	GAAACATCAG
127201	AATTTGTTTC	TATGTTGACA	GAGCATTATA	ATANNNNNNN	NNNNNNNNNN
127251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNAATTTAT	TAATATTGAT
127301	CGTCTCTCT	TCTTTGATCC	CTCCAAACTT	TGTATATTTA	GCATAGCCTT
127351	TGTCAGATTC	TAACCTACAG	TGATCTCATT	TATTAACCTG	CTTCTCTGTG
127401	TGAGGAAGAG	CATAAGGTAC	TGGGCACTAC	ATGAGGATAA	GCATGTATAT
127451	TTCTCTTTAT	CTTAGTACCA	CGTAAGGATG	GAGATTCAGT	CTTCATGATC
127501	TTACTATCAA	TCCTTCAATA	TGAATTGAGG	ACCCCTAAAA	CACATACATA
127551	TGAAAAACACA	AACACACATG	CATGTTTATA	TACATCATTT	ACAAGGATTT
127601	GCTAGACAGT	TTGGGGGATA	TTAAGATGAA	GAATCTCTGC	TTTTAATGAC
127651	ATCATAATCA	TACAAAAAGGA	AAAAATATAT	ATATATAAAC	ACATATATGT
127701	GTGTATACAT	AAATATATTT	GTATATGTGT	ATATACAGTT	ATATTTTATA

FIGURE 3JJ

127751 TGTCTATATT TTATATATGT ATATATATAA TATAAACATA TATACATTTT
127801 GTATGTATGT ATCTAGATAT GTATATGCAT GTATATAAAT TCTCCCACTA
127851 TTCACTCCTT TAGCAATAGG ACCCAATATA TATATTGTAA TTTTGGAATA
127901 ATTATCAAAC AATATAGAAT ATGGTGATAT ATTTTATATAT GCCGATATGT
127951 ATACATTTGT ATATAAACAT ATACATATAT GTGTATATGT ACACACATAT
128001 ATGTACACAT ACACACATAT ACTTATAGGC ATATACAAAT ATATCACCAT
128051 CAATGCCCAA CACATTTTCT TTAGCATAAT AAAGCAATTG AGGGTGTTTG
128101 CAGGAGTAAA TATAAACTGC ACATTTTACA TTTTTTTCC CTAGAGCTTA
128151 TATGGGTAAA TAAAGAAAAC CTGTTCAAGG ACATTGATAG GCACTAAAAT
128201 GTCATTATTT CCTGTATAAT ATGGATAAAC TTTAACATAA AAAAATCTGC
128251 AATTTTTGGA AACCTTTACA TTTATAGAGC ACTTCAAAAT TTTCAAAGCA
128301 ATTTACACATT CCTTATTTTA CAAATAGTAT TCAAAATGAC TCTCTGAGGT
128351 GTGCAAGAAA ATAATGATTA TCTCTAATTT ATAATTAGGA AACTGAAGAT
128401 TAGCTTATTT AAGTAGCCTG CTCTACAGGG TACACTATTA GAAAGGACTA
128451 AAGTCAAAAC CAGTGTCTA GTCTTAGGC CTATACATTG TTTTCATTAT
128501 TCAAACCTTAC TGCCTTCTTC TATACAAATT TAATGAAATA CCTTATCTTC
128551 ACTAAACTTA ATGCTAGAAT TATTGAGAAA GTATGCAGAT AATTAGGTTT
128601 GCACCATTCA ACATTCACAA TAGTTAAATC TCAAAGGATG AAAAGAAGGA
128651 TTGGTCTGAC CTTCTCCATC TCATATGCTA TTCTAAAACT AATTGTATCT
128701 GCATATACAA ATTTACTGGA TATAACTGAA TAACTGCTGT ATGAGATTAG
128751 AATAAAGCAT AAAAATATTG ATTTGGAAGC AATATTTAAA TTACTTTTTT
128801 AGCATGTAGT TCCACAATAC CTGAGATGTA GTAGGCATTT AATAATTGAG
128851 TTCATAAAAA CAGGAGATTAT ATTTAGATGG GTAAATACAT ATGCTTCAGA
128901 GTTCAAATGG ACCTGAGTTC AAATTCCTTC TCTGCATTTT TGTAGCTGTA
128951 TGACCTGAAA CTTTCTGAGT GAAGTTTCTA CACTGATAAA GTAGGAATAA
129001 TAATCAACCC TACTTTATTTC ATTGCTGCTA AATCATATTT CAATTATTCA
129051 CTGGAATTACA CATTGGAAGC ATTTAATAAA TACATGTTAT TTTTATTGCT
129101 GTTGATGTTT CATGGTAGTA GATTCTACAT TTTCTGGCT GATAATCCAG
129151 AGGAAAATCT CTGAGCTAAT TTAAGGACTG CAATGAAAAG TGGCATCCAT
129201 GGGTAAAGGT CATAATGAAA GTTGACCTGT GGAATGAAAC TTACACTTTG
129251 TTCCATGTAT CACAGAGCTT TAAAACCCAG TAAACTCTAT ATTCCAATTA
129301 AAGGGCAAAA GTCCAGGCAA GAAGTTTCCT CTCAGAAAAA CTCAAAAGTT
129351 TGCACACACA TATTCAAAGG TAGAAGCAGA AATAGCAAAC AGAATTGACA
129401 TACTTTCTTC ATTTTCATAA GATACAATGG AAATATCTCC AAAACACCTT
129451 TGGGCAAAAC TTTTACCTGG TGCTTTACCA TTTTCTGAAA TAAATTAGCC
129501 ATTACAGGAA GAAAACCTAA ATGTGTCTTA GCTTCTTTAC ATGAGAATCA
129551 AGGGGGGAAA TGTGACCATA TAAAGATATA TTTAAATAAC AGATAATACA
129601 TAGATATATG TATTA AAAAG AAATATAAAA TAATATTTCA AATCCTGGAA
129651 AACTGAGATT CATATAATGTT AGTTTGTAA ATAAGTTGTA ACAAGATTGT
129701 ATAGGAATAA TCCCAATTAT TTATATATGT GTATGTATAT AAAATATACA
129751 GTATAATATT TAGTATACAA TATGTGATAT ATTGTCTATA TTACTCTGTG
129801 TGGAACCTAC TCCTCCCTTA CAGGTACTGG CTTTCTGGCC TTGCTCACCA
129851 GTGGGTCTGC ATACCCCTCC GTACGTACTC AGCATAGAGA AGGGTCAAGT
129901 TGCCTCAATC CTCAGTGCCA CCTCCACATC ATTTCTCTATC CCTCTGCCCT
129951 AAAATTGCCA GCTTGAATTC ATGCTATCAA GCATAGGACA CACCATTGCT
130001 CTTTTTGGA GTTAATTACC ATCCCCTAAG TCACTTTCTC TTGTTTCTTA
130051 AAGATTTTAC TCCGGGATCA CTGCTTCTCT CTCATCACTC TTCTGTCTA
130101 ATTATTGATG ATGTCAAAT TCATATAAAA TATTGACCCA TAGCCCTGCT
130151 CATCACTTTC TGGACCTCTT CTCTTGCACT GACTTGCTT CCACATGACC
130201 TCATCACTTT CTGCCATGTT CACAACCTAG ACCTTTTCAC CACCAAGAAAT
130251 TGTAGCTCTT CCATAATCTT GATTGCAGAT GTCTCACTAT CTGTCCAAAT
130301 CCTTCTTTCC AGATCACTGG ACTCTGATAA TTCTTCAACC CTGCTCTGCC
130351 CTACAGCTCT TTGATTCTAT CGAATTTTCC ATTTCTCCTA ACCCAATCAA
130401 GACTTCAATT TTTCTCTTGC TCAGCTTGAA CTGCATGCCT ATTTGTTTCC
130451 TTTCTCTGCT GTTATATATC CTCAACTCTC AAATTTATCT CTTATAGTCT
130501 CGACCTTTTG ATAAATCCCC AAACCTTGCT AAATAAAACC CTCCATGGAT
130551 TCTTCTCTGT GTTACTAGAA GTGTATTGGA GAAAAATTCA TGATCACGCC
130601 AAAATATCTC ACTTTAAACT CATGGCCACT AACCTCAAAA ACACAGCCTC
130651 CTAATCTATT CAATCTCCCT TTCTTCTAGG AGATTCTTTC TCCTTCTTCT
130701 TTCTTCTCTG GCCTCTAACA CTATATTCCT CATTTTCACC TACATCTGAT
130751 AGCCTTGTTT ATATTCTACT GATAAAACAA AAGCAATTAA AAGAGAACAT
130801 TCACAAGGTC CCCTACTTGT CTGCATCTGT GTCCATATAC TCAGTCTTTC
130851 TCCTGTGGCT GCATGAAC TGTCTAGTCT CCGTATAACA GCCAACCTTC
130901 TCACTTGGAC ACTACATGAC CTCTCCCTTT GCCTCTCAAG AACATGGGTT
130951 GAGGAATTCT CCCTTCTGCA TCATCATTTT TTCTCTTTTA GCAGCTAAAC
131001 AAATCTATTG TAATTCTTA CATCATAAAA ATATCTTGAT ATTATAGGTT
131051 TCTCTCTACT TCTTTATTGT TCTTTTATT TACATTATAG CCCCTGAAG
131101 AATTGTCAAC ACTTACTATC TTCAATTCCC TTCTCTTATT TCTTCAGCAC
131151 CCTCAAATAA GACTTGGATA CTAAGCAAGC ACAACACTGA ATCAGCTATT
131201 TTCAAGGTCA TCAATTAAC ACTCAGAAAA TTAGCCTTAA GTCTCAGTCT
131251 CCAATTTATT TGACTTTTCA GCAGCTCTGA CTCTTTCATC TTAGTCTCAT

FIGURE 3KK

131301	AGGTTCTATC	TCATCTTCTA	GACCTGCAAA	CAAAATAATT	TAGAGCTCAG
131351	TACTTGAATT	TACTATCTCT	TTCTAAACTC	TTTTTCTTGG	TGATTGTAAG
131401	AGTCAGGGTT	CTCTAGAGGG	ACAGAACTAA	CAGGATAGAT	GTATATATGA
131451	AGGGGCGTTT	ATTAAGGAGT	GTTGACTCAC	ACAATCACAA	GGTGAAGCCC
131501	CAAAATAGGC	CATCTGCAAG	CTGAGGAGCA	AGGAAGCCAG	TCTAAGTCCC
131551	AAAATCTCAA	AAGTAGGGAA	GCTGATAGTG	CAGCCTTCAG	TCTATGACCA
131601	AAGGGCCATG	GCAAAATTACT	GGTGCAAGTC	CCAGAGTCCA	AAAGCTGAAG
131651	TACGTGGAGT	CCGATGTTCT	AGGGCAGGAA	GCATCCAGCA	TTTCCCAGTC
131701	CACTGACTCA	AATGTTAATC	TCCTTTGGCA	ATACCCTCAC	AGACACACCC
131751	AGAAACAATA	CTTTGTGTTT	TTCAATCCAA	TCAAGATGAC	ACTCAATATT
131801	GACCATCGCA	GTGATGTCAT	CCAATTTTCA	TGACTTTAAG	TAAGAGATAT
131851	GAGCTGATTA	CTTTCAAATT	TATGTCTCTA	GTTTGGACTT	CTTACTGAAT
131901	TCTAAAGTCA	TATATCTAAT	TGCCTTCGTG	GCATTCCCTAC	CTGAATATCT
131951	AATAGTGATT	TCAAACATAA	TATGTCCAAT	GTGAGTTTTT	TATTTTCCCT
132001	GCAAAATCTGT	TCATACTAAA	ACCTCAAAAA	CACAGGCAGT	AAAAGCAAAA
132051	ATATACAAAT	GGGATTATAT	CAAAGTAAAA	ATCATATGCA	CACAAAGGAA
132101	ACAATCAACA	GAATGAATAG	ACAATCTGCA	AAATGGGAGA	AAATATTTGC
132151	AAACTATTCA	TCCAACAAGG	GATTAATATC	CAAAATATAC	CAGGAACCTA
132201	ACTCAATAGC	GAGGAAAAAA	TCCAATTTAA	AAATGGGCAA	ATGAGCTGAA
132251	TGAACATCTC	TCAAAAGAAG	ACATACAAAT	GGCCAACAGG	CATATGAAAG
132301	ATTGCTCAAC	ATCACTAATC	ATCAAGGAAA	TACAAATCAA	AACCACAATG
132351	AAACACCATC	TCTCCCCATT	TAGAATGGTT	ATTATCAAAA	AGACAAAAAA
132401	ATAACAAATG	GCAGCAAGAA	TGCAGAGAAA	GTGGAATTAT	TATACACTAT
132451	TATACACTAT	TTAGTTTTCC	TCAGAAAAC	AAAATACAAC	CATCATTATG
132501	ACCCAGCAAT	ACCACTACTG	GGTATATATC	CAAAGGGAAG	AAAATCAGTA
132551	TGTCAAAGGC	ATATCTATGC	TTACGCAGTA	AGTGCTGCAG	CACTATTAC
132601	AATAGATGAG	ATAAGAATC	AGCCTAAGTA	TTTCATCAAC	GATGAATGAA
132651	TAAAGAAAAT	ATGCTGTATA	TACGCAATGG	AATACTATTT	AGCCATGTAA
132701	AAGAATAAAG	TCCTGTCATT	TGTGGCAATA	TGGATGAGCT	TGGAGAACAT
132751	TATGATAATT	GAAATAATCC	AGGAACAGAA	AAATAAATAC	CACATGTTCT
132801	CACCTATGCA	GAGGCTGAAA	AAGTTGATCT	CGTGAAAGTA	GAGAGTAGAA
132851	TAGTGGTTAA	AAGCTGGGAA	GGGGAAGAGG	TGAGAGTAAG	AGATTGGTTA
132901	ACGAATGCAA	AATTACAGCT	AGATAGGAGA	AATAAATACT	GGTGTCTATA
132951	GCTCTGTAGT	GTGACTATAA	CAAAACCACAA	TTTATTGTAT	ATTTTCAAAT
133001	AGCTAGAGA	GCAGAAATTTG	ATGTTCCCAA	CATAAAGAAA	TTATAAATGT
133051	TTAAGGAGAT	GGATGTGCTC	ATTACCCTGA	CTTGAGTATT	ACACATTGCA
133101	TACATGTATG	AAAATTTTCA	CACTGTATTCT	CATAAAATG	TGCAATTATT
133151	ATGTGTCAAA	ATAATAAGAA	AAGATTATTA	AAAACGCTC	ATCTGGAGTC
133201	TTCCCCATCT	TCCTTTGGAG	TCGTTATTGA	TTTCTCTGTT	TCTCTCATAC
133251	CTCATATCAA	ATCTATTAGC	AAATTCAGTT	GGTTTGCCT	TCAAAATGTA
133301	TCCATATCTG	ATCACTTCTC	ACCATCTCCA	TTGATATCAC	CCATGCCACC
133351	AATATTCTTT	GGCTGAATTG	TTACAATAAC	CCTCTAACTA	TTCTCCCTCC
133401	TTTCACCTTT	TAAACTCCCA	TAGGTTGGTC	TATGGAAGCC	CACGTGAAAC
133451	TGTTAAACCA	CACACTATGT	TTGAAACCTT	TCAGTGACTT	TCTGTGTCAT
133501	TCAGAGTAAA	AAGCAAAGTC	TTATAATTAC	TTTTTAGGAC	CTAAAGCACC
133551	ACTTACTACT	CCTGCTTTTT	CTAGCCATTA	TCTGTACTC	TTCCCCCTCA
133601	TTTACTCTAC	TCCAGGCACC	TGCTGTTTCT	AGAACATTCC	TGACACCCTT
133651	CTCCTTTAAG	GTCGTTGGAC	TTGATTTTCC	TTCTACCCAC	AATTCTTTTC
133701	CCCCGAATCC	TGCAGGCCTC	ACTTCTTTCC	TTCTTCAAAA	CTGTCTTCAC
133751	ATTATCACCA	GTGATATGTG	AAGTTTGGAG	ATGGGCTGGA	GAACACTATG
133801	ATAAGTGAAA	TAGCCAGGA	ACAGAAAAAT	AAATACCGCA	TATTCTCATG
133851	AAGTATTTAT	TTTTTCTGAA	TAACCTATTT	CTGAACAGCC	TATTTTCTGA
133901	AAAGCCTATT	TTCTGAAAAC	TTTCTCTCAT	AGCCCTTATC	ACTTTTATAA
133951	ATTCTATGTA	ATTTGCATAC	ATAATATACA	TTAATAGACA	ATGCTTATTT
134001	CTCCTAATGA	TAAAATAAAC	GAGGGTAGGA	ATTTCAAGT	CTTTGGTCAG
134051	TGATGAACCC	CCAGCTCCTA	AAATAGTGCC	TGGAATGTAA	TAGTCACTCA
134101	CAAATATTGA	TTCAAGTGAG	AATGTGCATA	TTTAAAAAAT	CTGTAAAGAA
134151	ATCAACCAAA	ATGTTAATGG	TCCTTCACTC	TGGATAGTGG	GATTACAGGT
134201	GAATTCTACT	TTCTATTATG	TATTTTCTTA	AATTTTCAAA	ATATTCTACA
134251	TTAACATATA	TTATTTTAA	TAAGAAAAGA	TCCCTCACAC	TTTAACTACA
134301	TATTTAGGTC	TTTCGGTTGA	GACTGGAAAG	ACAGAAAAGC	TGCAGTATAC
134351	TGTGTATTTA	AGAGAAATCAA	GATTTTCTAC	AAGCAAATGT	TCCTGGCTTG
134401	CACCTGTAAT	TGGGAAAATC	ACCTAAAGTG	CCTCCTCATT	GTTCCTTAAA
134451	GTAATAATAA	CTTGCTGGAT	TACATTTTAG	AGTCCCTGGA	AAATTTAAAT
134501	ATATGTTATT	TTTTGTATAT	TACTATTCTC	TGACTACTGA	GACAATTTCA
134551	ATGTAAAAAA	GTAAATGTTA	CCTTTTATTC	CATATTCCTT	AAAGCATCTT
134601	CCTGTTTGAA	ATAGATGTCA	TTCCATTACT	ACTTTTAAAC	TTATACATTA
134651	CCTTTCTTTA	AAAGAAATCC	ACAGATACTG	TTCACAATTA	TATAAACTCA
134701	AGTGTCTATG	TTTTATGTTT	CAGGTAAATA	GACCAAAATT	CAGAGAAATT
134751	TGATAAATAT	ACACAAGGAT	GTCAATAATG	ATTTAAGACA	GATCTCATGT
134801	CCTATGAGTT	TACTGTATTA	GCAAAATGAA	ACTTCATATT	ACCATGTTTT

FIGURE 3LL

134851 TCTTGGGTCA GAACTCCAGA CAGTAAATGC CACTAGACTA ATGACTAATG
134901 CCACAGTTTA AGTAGATAAG TAATTTCTTA GAGGAAGAGT GTACATATAT
134951 CTGCACAACC AATAAATACA TGGCAGAAAC ATCATGGAGT GGGTTTAGAG
135001 AGCTGGTTCT GGGCTCAACC TGCCTTACCA ATTTTGAGAT CTTGGCAAGT
135051 TACTTCACCT TTCTAAGCTT CAATATCTTC ATCTATAAAA TGAGCATAAT
135101 ATTAGTACTA ATTCACAATG ATTTTATAAG AATATTGAAT ATAAGATGCT
135151 TAGCAAACTG CTACAAAGAC TCAGACTTAA GACCTTTATT AAGTTCGTGT
135201 ATTATTGTAA ATATTATTAT GTAGTCCTTA ATGTTTTATT CAAAAGTTAG
135251 ACATAAATTT TGAGAACCAT TTGTTGTGTA GTATATCAGA TTGTGAGGAT
135301 AAATTTAGAC GTTGGAAATT TTGAGTATTT AAGATTATCT AGTATTTACG
135351 GTATTCTAAA ATATTAGGTA ATTTTACAAC CAGCATATGT TTCATGCATT
135401 GATCGAAAAC TAAAACACTG TATCTGTGAA CACAGTGATG CAGTGTTTGT
135451 AATTATATCC TTCTAGGGTT ATTTATGTCC AAATGAATTT ATTGCTACTC
135501 AAGGTCCACT ACCAGGAACA GTTGGAGATT TTTGGAGAAT GGTGTGGGAA
135551 ACCAGACCAA AATGCTAAGT AATGCTAACA CAGTGTTTTG AAAAAAGGACG
135601 GGTAAGTTAT TTGAAAATGT TTTACAAATG TTGTTTTACG ATTGTGTAA
135651 CATATGTGTG AATATTTTCT CTAATACTGT GAGTCATCAA TAACCTGGAC
135701 ATCTATAAAG TAATTTTAAC TTAGTCGTAA TAACTGTGGT ATACATATAT
135751 ATCAATATAA ATATGACGCT TATGACTGAT GATTTTCTCT GAATGCAGAT
135801 CAGATGCCAT CAGTATTGGC CAGAGGACAA CAAGCCAGTT ACTGTCTTTG
135851 GAGATATAGT GATTACAAAG CTAATGGAGG ATGTTCAAAT AGATTGGACT
135901 ATCAGGGATC TGAATAATGA AAGGGTAAAA AAAAAAGGGG GGGACGAGAG
135951 AACATGATAT AATAATATGAT TGATCTAAAT GTCTAAAAATA AAATTAAATTT
136001 CTAGAACTAT CCCTTTCAAG GATACCTGTA TATTCAACAA TGCTTTTGTA
136051 TTGTCTTCTG AACAGAATTT TGAATCGATA TCCAACTTTA GTATCAATGT
136101 CACTGTATTT GTTCCAGATC ACTCTAGTTA AAGTCTGTAT TAACCAATTA
136151 GCATCACATT CTTAGGTTGA CAAGAGCAGA AAAAGGAGAG AAAATGATGA
136201 GATCACTAGC TTTATTTTAT CTAATGAAGA AACTGTAATA TCTGACTTGA
136251 GACAGCAATT TCCCAGTCA CTCATCTCCT GAATCCTAAT AATTTGATTT
136301 TCTATTTAAT CTGCAGCCAG ATAGAAAAGG TAGTATGGGA TCTCACTTTA
136351 TGAGATCTTT ATGGGATCAC TTTATGGGAT CTCAGTTTAT ATAAATGCCCT
136401 ATACACACAG AAGATGATAT AAGGATCTTT ATACTTTTCA CATAACAGAT
136451 GCTCAATACC TGTGTATGGA ATAATTTGTG AATGTGTTCA TTTAAGTTT
136501 GGGTCAAAAG TGTTCATAA CCTATTATTC TGAGTGTCTAC AAAATGGCAT
136551 ACTATATTTG AATGATTAAT TCCTATATTA ACATTTATTT CCAAGCTTTC
136601 TTATGTTTTT ATTCAATTTG AAAGGCAATT CTCTTTATTG TAACAATAAA
136651 AATCTCTCTT ATAGGAAATA ATGAAAACAT TTTATTTGGT TTGGTAAATA
136701 GTCATTTTAA AAAGATCACC TTCAAAACT GGGACTATTG CCTTCAACCT
136751 TCATTTTGA TCTTAAATAA TTTTGTCTAT CATTAATCCG TCCCTTTGTC
136801 TAGCATGGGG ATTGCATGAC TGTTTCGACAG TGTAACCTTA CTGCCTGGCC
136851 AGAGCATGGG GTTCCCTGAG AACAGCGCCC CTCTAATTCA CTTTGTGAAG
136901 TTGGTTCGAG CAAGCAGGGC ACATGACACC ACACCTATGA TTGTTCACTG
136951 CAGGTGAGAA AATGATCAGA AATGGCCTTT GAACCCATG CTCCTTTTAT
137001 TATTAAATTT CCATTGGTTA TTTTATATAA AATGTTTCATG TAAATTTCTT
137051 CCAGCTTGCC GTCTTCAGAG ATTTACATT TAGCATTTCT AGACACATTG
137101 GTATGATTTA TGTTTTCTGA CATGATAGAT CTAAACCAGT CTTGACTCGA
137151 TGCTTTTTC CAGTTGAAGT TTGGAGATTA GAGGAAAATG TAGTATGAAT
137201 TCTACTTAAA TGAGATACTC AGAATAGGTA AATAAATAGA AACAGAAAGT
137251 AGAGTTGTGG TTATTAGTGA GGAGGGAGAT GAAAAATTAT TATCTAATGG
137301 GTACAGACCT TCTATTTGGG ATGATGAAAA GTTCTGGAAG TATACTGTGT
137351 TGATATTTGC AACAACATTGA GAATATACTT AATGCCACTG AATTGTACAT
137401 GTAAAATGGT CAAAATGGTA GATTCTCTGT TATTCATCTT TCACCACAAT
137451 AAAAAAGATTT TTTTAAAGTA ACAATAACTT TTAATATTTT TAACAGGAGT
137501 GTACTATAAT TAATGTGGTT AAATACTGTA CATAAGAAAA GATAAATTCA
137551 TTCAGTTTTT AAACCTTTAT TTTAAAAAAC TCAATATGTA ATTTAAATGA
137601 TTATACATTT TCCATAAATT TCTGGATTTT TAAAATTATA AGACTAATAC
137651 GTAAATGCTT GCTCATTATA AAATATATGA ACAATGCTTA TATTTATAAA
137701 ACATGTAGAA CAAAAAGTAA AAGCCTCAT TTTACCTTCT CAATTTTAAA
137751 TCCCTCCATA TAGGTATAAA GCTTAATATA ATAGTATATA CTAACAAACAG
137801 TATAACAATT TGCTTCTACA GTCAATGATT GATTTTATGC TGGCATCACT
137851 GATGATTAATA ACCTTTGATG GACAGTAGCT GTCTTCAATT TCTCTGTATC
137901 ATGCAAAATAC ACTGCCATGG GCACTAAAAG AAAAGTACTT TCTCCTTTTT
137951 AGCCTCAAAA AGAATAGAGT CTCCTCCTTT GTGATTTAAA TAAGAGATAA
138001 GAAGAAAGTT GTTCATATTA TTGACCATNN NNNNNNNNNN NNNNNNNNNN
138051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
138351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3MM

138401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
138801	NNNNNNNNNN	NNNNNNNNCA	TATACCTGTC	TTTGAGTATT	GATGTAATTT
138851	TTTAAATGAA	AATAGTTTTT	CAATTTTATT	ATCTATAGGA	GGCAAAATAA
138901	ATTCTAGAGA	AAGAAAGTGA	AAAGGACAAT	TGCAACACTA	TTTTTCAAAA
138951	TGAAACAAAG	AAAATGCTAT	ATAAGCTAAA	TATTCTACAT	TTGTAACATT
139001	TAGCATTTCT	GCTGGTAACT	GAATATTTGG	TCAATACAGA	GTCTCTGGTA
139051	TTAAGAATTT	TCAATGATTT	TAAAAAATC	TCTATACTTC	AACAACACAC
139101	CCTAAAATAT	TAGAAAATAA	GAGGTAAAGT	TCCACTGATT	AAAGAAAGAC
139151	AAACTCAAAT	ATTTGATAGC	ATATTAATGA	TAATCATCTT	GCCTTGTTTA
139201	AACACAATCT	TGGTAACCAT	AAAAAATCCA	AAGACACTCC	AAAGAAAATC
139251	TGCCTCCAAA	TAAGAGAAGA	AACTATTAGA	ATTTATTGCT	ATCATAGCTC
139301	ATTATCTTTA	TGCCCATCAA	AATGAACAAC	CCTTTGCTGA	ATAATTTTCA
139351	TGTAATTTAC	CCTTCCTGTA	GTGCTGGAGT	TGGAAGAACT	GGAGTTTTTA
139401	TTGCTCTGGA	CCATTTAACA	CAACATATAA	ATGACCATGA	TTTTGTGGAT
139451	ATATATGGAC	TAGTAGCTGA	ACTGAGAAGT	GAAAGAATGT	GCATGGTGCA
139501	GAATCTGGTA	AGATCTCTAA	ACCTGCACTG	CATTCTAAAG	TTCTAGAATT
139551	TCCACATGGG	AGATCCTTAG	TGGCAGCAAT	CTGGATGGAC	ATGAGCTTGA
139601	AGCTGTGGAC	ACCTTCTTTT	CCTACATTAT	AAGCCTTTTG	GGGAGGATTC
139651	GGGAGGGCAG	CTGATAGAGA	TTATAGGAGA	ACTAATGCCC	ACATGCCATA
139701	GTCACCTGCG	ATGCTTGTTA	CTGATGGCTC	ATCTTAACTT	GTATACTGTA
139751	TAGGCATGTA	GGCAGTAACA	TAAAATTGAT	TTATCTTTAT	CGTTTAGCAA
139801	CTTTGGGATA	TCTGGAAATG	AACTCAAATC	AATATCTTTT	GAATATCATT
139851	ATCTTTTGAA	AAGTTATAAA	TGGGAAAACA	GTTTAAAATA	TTGACTGTAA
139901	TAAAGTTCTA	TGGGTTTAC	TTCTCCATAT	TTATCCCTAT	TGCATACCAG
139951	TACTAATAAT	GATTATTGTA	GCACGCTATC	AACTATTAAC	TGTGAGGTTT
140001	TTGTTTGTTG	TTTTGGCTTA	TAGGCAAAAA	ATATTTACAA	AATATATACA
140051	ATTNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
140951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
141901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN

FIGURE 3NN

141951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
142951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
143301	NNNNNNNAAC	AACAACAAAA	CCAACAACAA	CACATTGTAG	CCCCAGGAAA
143351	TTTGAAAGGC	CTTTATGAGA	GAAGTCTCCT	GATGTGAGCT	AATATCCTAA
143401	GATACTTTTA	GTGCCTCAAG	GAAGTGGAAA	TTTACTGGTG	TGAACCTATA
143451	TAGGGGAAGA	AAAAGAAAAA	AAGTCAACAT	ATTTTGGATG	TCCAGTTTTT
143501	TGTCGGGCAT	TTTATGTATG	TTAAATCCTT	TAAATCTTAC	AATACAGGAT
143551	TTATGACACA	CACTCCACCC	CCCAGATGAG	GAAATGTGTC	ATCAGAAGAG
143601	TTTAATTCCT	AAGGTAATAT	GGCTCTCTAG	GGCAGAAACT	GGAATTAAC
143651	TTTTTTCACA	ACAGATGCT	GCTTCTCTGG	CAATAACACA	TAACGGCAGA
143701	AGGACCTTGG	AACCTGTAGG	ACTGTCTCAC	AGAGTTCAGC	CTGCTCTGCT
143751	GGCAAAGTTT	ACACCTATCA	TTCTTTCAG	TGGAGAAGAT	GAAATCAGGA
143801	CAGTCAGAAG	TTTCACATAT	CAAAATGTGAC	TTACATATTT	TTTTTAAATA
143851	CTAGGACACA	AAAATTAAAA	TGATTTCCAA	AAAATTATA	TTGTGTCAAC
143901	ATATTTCTGT	CAATAATGTA	ATTCACGTGT	TCATGTATGT	TTGAAAACAC
143951	ACTCTTGGA	TTACCTCGAG	AAGTAACTTA	CTAGCAATTT	CAGTAGAAAT
144001	TTTATTGCTT	TATAACAACA	CTTCAATTCT	TACCAAAATT	GAATCTATA
144051	AACCTGACAT	TACACCTCAT	TTACAAAAC	TAACACCTAA	TGACATTTGA
144101	ATTTTCTTTA	AATTACATCT	GCCCTTAAAT	GGTAAAGGTT	GACTAGCTGT
144151	GAGAATTAAA	TGAGACTAAG	TCAACAAACA	CTTATTATAC	AACTACTATG
144201	TGCCCCGGCAG	TATTATAGGT	AATCAGAATA	TAGCAGTGAA	TATGACAGAG
144251	TTCTGCCTTT	ATAAACTGA	CGTTCCAGTA	ATGAGATGTT	CTTGGAAACA
144301	TTTTGTAAATC	CACAAAGAAA	TAGATATTCC	TAATAATGAC	AAACAATTTT
144351	TGAAGACAAAT	TTCAATAGAG	GAGTTCCAAA	AGGTTTGTAG	GTACAGTAGC
144401	AATAGATACG	AATATAACCT	CTGAGGCTGA	TCACCTTTGA	GAATGTTCTA
144451	TTTAAATCAT	TGTCAATTTG	AATATATGTC	TTAAACATTT	GATGATATTC
144501	CTTTAAAGTC	AGATATGTTT	GTTATGTGCA	AATGAGGGTG	ATTTGAAATA
144551	TACTTTTTTTT	TTTAGCTTTA	ACTACTTTTG	ATAAGGTCCA	AACTCAGAGA
144601	TGCTAGTAGG	TTATTGAATT	ATATTGAAAA	CATTTAAAGG	ATCCAAATGG
144651	TACTGAATTT	AGCCCAAACA	TTACAGATGCA	ATGGTAGGAG	TCCTTGTCCTA
144701	GCACCTGGAT	GTTTGGGTAC	TTCAATGACC	CACTGCCTTG	TATTTACAAA
144751	TCAGGACCAG	ATACTTGATC	TTAAGCAGGC	CACATATCCA	GGTGACTAAC
144801	AGATTTATTG	GTTAAACATA	TTTTAAATGC	GCTGATGATG	TATAGATATG
144851	CTGACTCACA	GATTTCAAAA	GTAAATTTAG	CATTTGTATT	CCAACAGTCA
144901	TTCTAACAAAG	AAAAGTGTAA	GAGAATTTAC	CAATTAGGTC	TAACAGGAAA
144951	AAAAGTCTATA	AACAAATTTA	TGTAATATAA	TTTTCTACTT	CTTATGATAA
145001	CAGCAAGAAA	GAATATATTA	ATACTTGGTG	TTTAGTGACA	AGTGTTAGAA
145051	AAAAGTCTTA	AGCTTCAAGA	GACCACAGGA	ATTTAGAAAG	CCTCCTATTT
145101	GAAATGGTAG	AAAATCATAT	CTATACTATG	ATAAATCTTG	TGCTCTGTAAC
145151	TTAGCTATTT	ATTTGATGAA	TTTCTAGTCT	CTTTTAGCTT	TAACAATATA
145201	ACTCCCTTTA	TGAAACTCTT	CATCAATATA	TTTGTTTAAC	CACTCTGTCT
145251	TTGGTGTCTA	GGCAGATAT	ATCTTTTAC	ACCAGTGCAT	TCTGGATCTC
145301	TTATCAAATA	AGGGAAGTAA	TCAGCCCATC	TGTTTTGTTA	ACTATTGAGC
145351	ACTTCAGAAAG	ATGGACTCTT	TGGACGCCAT	GGAAGGTAAA	CAGAAACAAC
145401	AGTATATGCC	CAGCTTACTA	GTTTACCACC	TACGGTAAGA	ACATAAATTT
145451	CAGAATAACC	ATATGTTAAA	AATGTTTAAAG	AAGCTGGATT	AGTGACACAGA

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145501	TCAGGTTTTT	TTTCTTTAAC	TTTTCTCTAA	TCCAAGTTGG	GCTAATAATA
145551	CCCTTTCTGT	CTACATTATA	TTTTTATCAT	GAAACATTTC	AATTTTGAAC
145601	TGTTAACTTC	AACACTCTCT	TGTAACATGT	TACTTTCTGT	TATAGGTGAT
145651	GTTGAGCTTG	AATGGGAAGA	AACCACTATG	TAAATATTCA	GACCAAAGGA
145701	TACAATTGGA	AGAGATTTTT	AAATCCCAGG	GGCCAAAGTT	ACCCCTCAT
145751	TCTTCCGAAT	TGAAATGTGC	AACCTTAAAG	AAATATCTAT	GCTTCTCTCA
145801	CTGTGCCTTT	CCAAACGGAT	TGAACATTTT	AAGNNNNNNN	NNNNNNNNNN
145851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
145901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
145951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
146951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
147801	NNNNNNNNNN	TATCTTCATT	AGTTTCTTGT	CTAAGACTTC	ATAGATACTA
147851	GTTACTCTCT	GGGGTCCCTG	AAGCAATAGT	ATTAACCCCTC	ACACAAATCA
147901	GTAATGTGTA	GTAGTAGTTG	GTTAGACGGA	TCAGTCATGG	TAGATTTTGT
147951	TGTATTTTAA	TGTAGCAGAT	AGGAGATTCA	AGCTTTTTTT	CTCTCAAGCT
148001	TGAGAAATACA	GAGGGCATAG	GTCTGGCTTA	CCTTGTAATA	AATGCCAGCA
148051	GCTAACAATG	AAATTCTACC	CAACACAGGC	TGGGTATTTC	TCTGATTTTT
148101	TGCCTTGGGT	TTACAGTATT	CCTAGAGTTA	CCAGAAAAC	ATAGTGGACA
148151	ATTAGCGGTG	GATGCCAAGA	GAATGCTTGG	AACTTTGAGA	ATGTTGGGGT
148201	GGACATTAAT	CAATTGATAT	AAGCTTTGGG	TATGGAGGAC	AACGTTATGT
148251	TATAATCATT	AGAAGAAATT	TCAAAGGCGA	TAAAGAAAAA	CTATTTTACA
148301	AACGCTCTTC	CCTGAAACAC	CAAGAAAGTG	ACCTATTATG	TTAATATTTT
148351	TGTTATATGC	AATGTGCCCT	GTTAGTTTTG	TTAGAAAATG	TACATTTTAT
148401	TATATCCATT	TTCAAATCGT	TTCTGGTAGT	GGGGTTTTTA	AATGATAAAT
148451	GAGGTTCAAA	ATTAATTCCA	GCCTCCTTTC	TTTTAGAAAC	AGTGTTAGAT
148501	TGAATCTGCA	TCAGGCGTGT	TTTCACATGC	TTGGCTTCAT	AATCTCTCTT
148551	CCTCCCCCTA	TATTGTTTGC	CTGGAATCTG	CACTAAAGAT	AAGGCAGAGT
148601	GCAAACCTGA	CTCATTGGCA	ACCAATCAGA	AGAACTTTAT	GTGGAAAAC
148651	CCCTTCGAGG	AGGTACAGGC	AGCATGAACA	AAATTTTTGA	AAAAGTGGAA
148701	GCAAAGGTAG	AAAAATATGG	TTGAAATGGC	TAAAACAATT	GGTACTTGTT
148751	TTAAAACTAT	ATTTCAATTC	TGATATGAAA	CCTTATCTTT	TCTTTTAAAG
148801	AAACACCTAA	CAAAATATTT	ATCAGATCAG	CACCACAGTA	AAGGGAAAAA
148851	GACATTAAAA	ATTAAAAAAG	ATAAAATAAC	AAATATTTAT	CAGAAATGCT
148901	CACCTTCAA	AAAATCTGGA	AGATTTTGAT	TATATATTTT	TCCAATTATC
148951	TTCTGTTTGG	TAAATTTCCA	AGTAATTGGA	TAAATAGTTT	ATATTTACTT
149001	TGTTTTAAAA	TGACTCAAAT	TTTCAATTAG	AGCATAAGCT	TTCAAAAAACA

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149051	ATCTGGTCAA	CTAGCAGACT	TTTAGCAAAT	AAGACATATT	TCAGAAACAG
149101	AAAATTAATT	GTTATATTAT	TTATGATAGT	TATACCTAAA	ACCTAGGTGT
149151	TGTTAAATAT	TTACATGTTT	AACACCCAAG	TATACTTAGA	GATCATTAT
149201	TGTACTCAGT	GATTTCTAAC	AACATGATTA	TTTTGGAAGT	TGAACCTATA
149251	CTATTTGTTT	TCAATTTTTT	GAAACTTTAG	GAGAATAACT	TTATTTTAAA
149301	CCTCTATTTT	TCAATATCAG	AACCAGAACA	ACCTGAGAAA	CTTAGAGCCT
149351	TCAATGTTTC	CACACATTCC	TTTTCTCTGC	ACTGGAGCCT	ACCCTCTGGT
149401	CATGTGGAAA	GGTATCAAGT	GGATCTTGTT	CCTGACAGTG	GCTTTGTTAC
149451	TATCAGAGAT	CTTGGAGGTG	GAGAATATCA	GGTATAGTTT	TCATTATTGT
149501	ACTTGCCGAG	CCTACTTGTA	TTTATATTTT	GCTCCTAATA	GGAAAGTTCT
149551	TTATTTTATG	AAACCCATCT	ACCACAAAAA	CTTACTCCTT	GTGGGTTTTT
149601	TGAAAGCATA	AGTTGAAGAC	AAAAACGTTG	ATGTCAAAGT	GATGAGTGTT
149651	AAGTTTCAGC	ATTGGTGGAC	TGTTACCTTA	GCAACATCTA	TGCTGCTTTT
149701	TTTTTTTTTT	TTTTTTTTTT	AAGTTCACCC	TGAACCTACA	GCCAGTCATC
149751	CAAGGGTTGA	TGAATAGTTT	AACAAAGAAA	AGGCAGAGCT	ATTGAGTAAT
149801	ACGGGCTCAT	TAATTGTGTA	CTTGCCAGAA	GGATCTGTCT	TTAAATCATT
149851	AATGCAGGCA	ACATTCTCT	CTAGAGCCAT	CAATGTGATT	CTACTGGCTG
149901	AAAAATGTAA	TAAAGATGGA	TTTTCTTATC	ATTTTTCTTT	TACTTTTTAT
149951	TGGGACTTGA	GAGACACAGG	TATTTCGTAT	ACACTCTTTA	AAAACAAGGG
150001	CTAAGTCATG	GGCTGTAGAT	TTCTCAAGAC	TTGAATAGTT	GTTCTTGTG
150051	ACAGTGAAGT	AGGATAGATA	GAAATGCTGA	CTTAGGCTGT	GATAACGCAG
150101	TACGTTTTGT	AAGTTTTTAT	TTTAAAGTCA	TTTGGTAAAA	AGTTATATAA
150151	CATATTTGTA	TCTTACAATA	ATATGGAAGT	TATGTGTATG	TTATAAACAG
150201	TGCAGAGTTA	TATAGTGAAG	AGTTAATTTT	TGTTATAGTG	ATAGATTTAT
150251	TTTAGCTTGC	TTGCTTTCCA	GAAAGAATTT	TAATGCAACT	ATTGTTTGT
150301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
150951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
151951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
152551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN

FIGURE 3QQ

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FIGURE 3SS

FIGURE 3SS

FIGURE 3TT

FIGURE 3UU

FIGURE 3UU

FIGURE 3VV

FIGURE 3WW

FIGURE 3YY

FIGURE 3ZZ

FIGURE 3AAA

FIGURE 3BBB

FIGURE 3BBB

FIGURE 3CCC

FIGURE 3DDD

198751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
198801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
198851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
198901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
198951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNTTTC
199001 TTTGACCTTG GTACCTCTCT CAGGGATGAG GACTCTCTTC CCATTTCTAT
199051 TGATCTTCTG AAAAAGTAGC CTCATTCCCC AACTCAAGGA ACTCTTTAAA
199101 TGCTTGAAAT CTTATTAGAA GTCACCAGTG ACCTCCCCAG TGTGCAACAC
199151 AAGTAATTAA ATATTTTAA CCACCCTTGT GTTCTTATCT CCTTCAAAAT
199201 CCATCCCTCT GTCCCCCAC TTTTCAGCTT TTGAAACTAT TTGTTCCCTTA
199251 ATACTTTCTG CAATTTTATG TACTGTGACA TTGCAATTCT TTGGCCTTGC
199301 ACAATTAAAA ATGAAAGTTC AAAAAGCTAA CTCTCTCTAT TTTCTAACTT
199351 TTTAGTGAAAG ATGTTCCACA GAGCTTTGGT TTCAGCCATC TCATAACATT
199401 TTCTTTTGAA GACCTAACAG TTTCAATCAC TGCTTCTTAT TTGTCTGACT
199451 CTTTGGCTTG TAGTTCTACT CTGATCCTTC TCTCTGACGC TCTGGATTCC
199501 TAATTGCAGC CATTGTGGG AAGAGTCCAC CAGGGCTCAT TACATCTAAA
199551 TAAATTTCTC CCCATAAAAC AAAACAGAAA TCTTCTCTGA GATAATAGGG
199601 GCTTCATGAT GGGAGGGAAG ATGTGACATT GGAATGAGGA CAGAGATCTT
199651 GGGACAGTGA TAGTGACCTG TGCAGGTTCC CACAGGGCAC CCATAAGGTC
199701 TGTCAGGCA ATTAATAGTG TCAGTGTGTC AAGAATAAGG CCTAAAGAGC
199751 GGCTGACTTG AAGTCTTGGT ACCTGGGTTT AGAATTTTCT AATCCCTCTG
199801 ACTGGACATA ACACAAATCT CTGACCTCAA GGTCAATTGT CTANNNNNNN
199851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
199901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
199951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
200451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNTCATCA AGCTAGTAAG
200501 AAGGGTCTAT ATAATGTGAT CATGGGAGAG ACATGTTATT CCTTTTGCCT
200551 TATTCTATTG GTTAGATACA AATCATAGGT CCCAACTAAC TAAAGAAGAG
200601 GAGATTTTAC AAAGCAGGAA CAACAGGAGG TGGGTATAGT GGGTATCTAC
200651 CTGAGAGGCC CTGCACTACA CTCCCCAGC CTACTATTTT ATATTTCAAA
200701 CACTTATTAG AATAATCCTT CCAGATTTAA GTATGTTATT TACATTATGA
200751 AAGTAACCTA ATAAGAATTG AGAACAGATG ACGAAGGTAT ATATGTGTTT
200801 AAGTAACCTA ACTCTTCACT ATCATTGCAG AAAATCAATA GATTCTAAAA
200851 ATGAGTGTTA ACAGAGCAGT ATATGCATAT TATTAGTGT TTAGGGGTA
200901 AACACCATAA GAACTGAAAA CAGGAGTGGT TTAAAGTGTT GCTTCTGGGA
200951 AGTAAGAGGT AGGGAGGGTA TAAACAGGGA ATTGTTATTT TCATTATAAA
201001 CCCTTCATCA TCTTTTGTG TAGCCATGTA GATATAACAT GATGATTAAA
201051 CTTAAAAATA TAACCTCCT ATGCTAGGCA TGATTTGATC TCATTACCCT
201101 TATTGAATTT TTTTCCAGTG AATCCCATGA TCTATTTGTT TCTGAATAAA
201151 TATGGATTAT TTAACAAGC TGAAATATGT ATAAGATTTT ACTGTTAATA
201201 TTTAAACAAA TATTGAAAA TTACATTAGC AAAATGAGTC TCAGGGTTTG
201251 AGATCTTTTA TTTCAACTTC CACACTTATA TATGTATCTG ATCTATAACA
201301 TTCCTAATAA ATGAGGTGAA TCCAGCCTCT GCTAAAATAT TTGATCAACT
201351 GTTATAGGAT ATCTACCACT GCAAAAGTAG CTCCTATCCT ATAAGCTTTG
201401 AAGTATCTT TGTATTGGTC CCATAAGCAT CTATTTCTTA AGTAATCATG
201451 AGGTTTGTAG CACTCTGTTA GGTACAGAAA CCCATAGATG AATAAGAAAC
201501 TACGGTGTTC TTTACTTTGA ACTGAAATAC CTGTCTTTTA ATTTTCATCA
201551 GTTCGTCTTA AGTCTCCTCT CTAGACCAAC ACAGTAGATT CCAGTGGTTA
201601 TGAACATGAA TTTTGGAGCC AGGAAAAATG TTCCAATCCT ACCTCTGCTG
201651 TCACTAGTTT TGTGAACTTG AACAGATGAC TGTAAAAATG AGATAAAAAAT
201701 CATCTATCTC TTTGGGGGAC AATAAAGCAA GATCAGATGA GTAAAAGTAT
201751 TTAACACTCT GTAACACACA GTAGCTTAAA ATGTTAGCCT TTGCAGTAAC
201801 AACATAATA AACAAATGATT TAACTCTTTC TCATTGAAGA TAATGGTCAG
201851 AGTTTTCGGA AGACTTAATA TCCTTAGTTT TTATTAGTCA TGGCTTCTAG
201901 GTCCTTCATA TCATGGATTA TATTCCTGTG CATATTTTCC AGTTTGTCAA
201951 GGATCTCTT ACTCACCTG AACACAATAT TCTGTATGGA GTTTGAATGG
202001 AGCCAAATTG AGCATAATTA TTTTCTCCTT CGAAGTAAAT TTCTTCTTCC
202051 TTTCAAAACA GTGAAATAAA AAAAAATCAT TTCATTGGGA GCCTCATTTCC
202101 ACTGAGACTG AAGTCTAAAA AACCTGAAG TCATTTCCGT GGACTGCTCT
202151 TGTCTGAAC TTCACAGTCA GATCCCATCC AGTACTTGTT CAATTAGAAA
202201 CCTGAGACAT TTTTCTCAA CAGACATATT GCTGCCTAGT ATTACAGACT
202251 TCTGAGATTG ATATAGATGC ATCTTTTCA TCCAACATAT TCCTTGAGAA

FIGURE 3EEE

202301 TATCAACGTT TGTCACTGGT GAATGTAAGT CTTGTGCTAA GTCTTGTGCC
 202351 AAGTCTTGTG CTAAGGGGCTT GGCTGGTTGC TAGGAATGAG GCTGAGGACA
 202401 GAACCCAAGA GTAGTTTAGG AATGTCTTGA GATAGGTTTA TTTTATTCAG
 202451 CATTAGGAAC ATAAACGGAG TCAAGACTTA AAGATTGTGT CACCTGAATA
 202501 ATGTGTTGAA TGATACGGTA TCCTTTAGAA AATTTCCCAG CATATGCTAA
 202551 TTAATAAAAT TTTTCTTTT ACCACTTCTT GATAACAGCA CAAATCATGT
 202601 TTTAGTCTAC ATTAATAATAT AGAAGCATTT CTAAAGAATA AGTCAAACAT
 202651 TTCATTAAAT CAATTCAGCA GACCTCCAGT GACCCCAAAC TGATAGATGT
 202701 GATAGGGTTT TTTAGAAAAT ACAATTACAT TCACTATAAT GAAGATTACT
 202751 ACATGTAAAA TCAAGTTGGT TTATTCAAGT GGATTAGGAA TTTATCTCTG
 202801 AAGACTCCTA ATCTTTTCAC ATAAATTCCA AGAATTCCTG GGCAGCATAG
 202851 GCAAGGCCTT TCATGTTGAC AAATTGTGAC ATTCCCTAAC TCAATGGTGC
 202901 TCAACCAGCG GCAGTTTTCG TCTCCAAGAA ACATGTGTTA ATCTTTGAAG
 202951 ACATGTTTCAT TGTCACAACT GAGGTAGCTG GGGGCCAGGG AAGCTGCTAA
 203001 ACATCCTACA ATGTACAGGA CAGCCTCCGC AACAGAAAAA TATCTAATTC
 203051 AGAATGTCAG TAGTGCTGAG GTTGGGAACC CTGTATTAAA TCAGTGAGTT
 203101 GCAAAATTTT AGGTGTTGCA ATGGACTTTT TTCCCTCCTA TTTCTCTCAT
 203151 TTCTACTGCT GCTTCTCTCT GCCCTTCCC ACTACTCTCT TAAGTCCAAA
 203201 TTCTTTCCCA ACATTTTTCG TTTTAATATT ATTACTTTT TTCTCATTAT
 203251 GAAAACTTAA CTANNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203301 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203351 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203401 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203451 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN
 203651 TTATCACAAC TTTTAAAAAG TAGCTTTTAT GGGAAACCTG TTGCTTTTCA
 203701 TGACAGCACT TTTCTGGGTA GAGTTGTAAC AAGATTTAGA CAATTGCATT
 203751 TTGTAAATAT TTGGAGGACT GAAGATTTT TGACTCATT CTCCATTCTT
 203801 TTATCTTTCA GAAGAATTAA TATTTAAGTA ACTTGCCATT GTAGATAGTT
 203851 AACTGAAATG CCATAAAAT TCTTGCTTTA CTGAACTTTT TCCTGAGCAC
 203901 CTACTTTCTT TTTTGGAAAG TATTAAGTGC TTTGATATTC CTAAGGCCCTA
 203951 GAAAACCTGT TTTTGGCTCT CTGAGTGAAG ACAACTCCAA AACATGTAAG
 204001 ATAATTAAAA GACAGATATA CCAAACTTAA TAAACAACCTG AAACCTATAT
 204051 TATGAATTAA TATAAACTCT GAGGGTAAAA GAGCATGGAA TTGATAAGGA
 204101 ATAGAATTTT TTTAAAAAAA GGGGTTTGTG AGGTAAAGTT TGAAGCAGAA
 204151 CTTGAAAAAA ATTAGTAAAA GAGAGTAGAT TTTTCAGCAT ATTCTTTTTT
 204201 CAAAACCTGT TGATTTTGGG AAATTTTGAA CAGGTTTAAA AGTACAGAAA
 204251 AGAGTCTAAT AAGCCTCCAT ATACCTGCCA CCTGGATTCA GTAATCATCA
 204301 ATAGGCTGCC ATTCTTGCC TCGGTTTFTA AATAAATTCC AGACTTAACA
 204351 TCATTTTGTT CCTATATGCC TAAGCACGAA TTTCTAAAAA CCATGGACAT
 204401 TTCCACCCAT AAAATAATGC CATGACCACA ATGAACAAAA TTAATAATAC
 204451 CATCTGGTA TCATTTAATA CCTAGAACAC ATTACAGATT CCTTGATTAT
 204501 CTTACATACC TATGTTGATT AGGTATGTT TAATTAGACT CCAAACAAAG
 204551 CAACATTTTC TTTGATTAA GTGTAGTCTT ATTTCCAAAG TCAACATTCT
 204601 ACACAAATAT CCAATATTAT TTGGCCATA CACCTTTTCC CCATTTTGTT
 204651 TCAATCAATT ATGCTAGTGG GGATGAAGAA ATGAGAATCA TCTAGTTAGC
 204701 TCAATGAAAA CCTCTACTGT ATTCATCCAT AATCTGTTCC TGATGTTTTT
 204751 ACCTCAGTGT TTGCAATTT GGTGAACCTG ACATGTGTGA ATTACATTAT
 204801 AGGATCTAGG AACAATTGCA GTTACTTTAA ATATTCTTAA TGTCCAGAGT
 204851 CTTGACAGGT ATGCCATGAA TCCTGTGTGA AAACATTAA TATTACCATG
 204901 TAGTTTTATT CTGGTATGTA ACTTCACTCT ATTATAAACT ATTATCATT
 204951 ATGTATATCA AGCAGGCATA TAGACCTCTC ATGTATGGTA TACAAATGAG
 205001 GACAGGTAAT TAGAGAAGCA AAACACATTC TAATACATCA GTATGCCTAG
 205051 AACACTTACC ATTTGGGGGT GATCAGTTAC AATATCTCAG TCATGAAACC
 205101 TTTGCATGAG GACGCTTAT CTTACCATAA AGAACTAAC TCAAGTCAGA
 205151 ACAAAATCTG TTTCTTCCCA AAATACAGTA TTGTTCTCTT AGGAAATACA
 205201 ATGATCACAA TGTGTTACAA TGATTCAGGG TATTAGTAGC CGGAGAAATGA
 205251 AATTTTGGAA TCTAAAGAAG ACAGTGGTCA TGGAAATATG TTATCTTTTA
 205301 TAACAGCATG ATTTCCAAAGT TATAGGTTTT TTAGAACTAA TACTTGATTT
 205351 AAGTCATGAA GTGTAACTGT CACAGTCTTT TAAAAATCT ACTTTTAATT
 205401 ACAGTATATA AATGACCCCA TGGCTCCAGA AATTGTGAAC ATAGTAGAGC
 205451 CAATGGTAGG ATTATATGAG GGTTCAGCAG AGATGTCGCT TGACCTTCAC
 205501 TCACTTGCTA CATTTATATA TAACAGCCAT CCAGATAAAA ACTTTCTGTC
 205551 AAGGAATAGA GCTGAAGACC AGACTTCACC AGTTGGTAGG TAGAATTTTG
 205601 ATTTTCTATA AAGTTCATTT AAACCACCAG TGCTAGCTAG CACAGAAATG
 205651 AACCTAAGCT TAGAGTTCAG CCATATTATT AATGGTCTTT GGGCTGGAGT
 205701 CGGATTTTTT TTTAGCTGTC GGAAAACCTC ATGCAACAAA TGGAAATGCC
 205751 ACACAGGCAG AAGCTGGCCC CTCCTAACCC ATTTGACCTT CTTCCTGGAG
 205801 AAAGTAGCAC CCTAGAGTCT CTGGCCAAGC TGATAGACA ATCAGTTATT

FIGURE 3FFF

205851 ACAGTTGCCA AAGCAGGTGT GATGGGAAGG GATTAACATA TCTTCAAATC
 205901 ATTTACAGGC CTCACATTCT CTACAGCTTT TGACTAATAG GTTTTCAAGT
 205951 GTCATAAAG GTAAATAGGT CAGAAAGTTA CAAATCTAGT GCATGGTGTG
 206001 ATAAACAGGT GTAGGTGACC CCAACGATGT GGTGATGTCA TTAGTGTATA
 206051 CACTTGCTCT TCAGTGTCTAG TGGCTCTTAC AGTTTCTAAA AGGAGAATGT
 206101 CATACGTGGC AAATTAATAA TACTCACCTG ACACATATTA TCTCTCTAGT
 206151 TTTTCTAAAA TGTTAAATGA GAAAAACATT TTATTACCTT TTCTCTAATT
 206201 TGGTACTTGT CCCATTCAAA ATTAAGAGTG TTATTCTATT TATGGTAGAA
 206251 TTAGTAAAAA AAAATCACAT TACATTCAAT AGATGTTTAT ATTTCACCTA
 206301 CTGATCCATT TTTCTTGTGC AAAGAAGACT GGAGGGCAAC ACTGAAAAAT
 206351 AAGAGTCCCA TGATTTCTGA TGCAGACATT CCCTTAAATA TTTCAAGTTT
 206401 GGCCTAATTG CTACTTAAGA GTTTTAGAAG CACAAATTCT AAATAAGCG
 206451 AAAATCTAAC ATTTGAAATT CTCTGGGAT ATTTATTTGT CAGTTATCCA
 206501 AGCATGCTTG CTTTCAAGAA TTATTTTGGT TTAGTGAATG TATGAACATA
 206551 TGGTGAAATT TGAGTCCAAA TAAAACTCTT TATTTATTTA ACTCTTTTAC
 206601 TAAAACTGG TATTGATTGA TAATATCTCA ATTATATATT TCTTTAACTC
 206651 TTCTACTAAA TCCTGGTATT GATTTATAAT ATTTCAATTA TATATTATG
 206701 CCTACTCTTT CTTTTCAGAA AACATTCTTA ACCAGCCTCT TTAAGAAAGT
 206751 TGTTTTCTTA AAAACACTAA TGTCTGTTT CAGAGTAATG TGTAAAAACT
 206801 AACAAAATTA TATTATGAAC ACAAATGTT TGTGGTTATT ATTGGGAGGT
 206851 ACTCAGAAAT TCATAGTAAT ATTCAATACG ATCTCTAAAA TTAATATTTT
 206901 TATGTTTACT ATTATACAC ATCTAACTTT AATAGAGGTG TGCATGGAGA
 206951 GATTAATGAA TACGGAGAAA TCAGGTTTAA GATTTTATAG TCTAAGAAAA
 207001 AAATAATTTT GATTGTGAAG CCAAACACCT TTCTTTTTTT CTCTTTTTAC
 207051 TGAATTCAAA CAGTAACTAC AAGGAATCAG TATATTACTG ACATTGCAGC
 207101 TGAACAGCTG TCTTATGTTA TCAGGAGACT TGTACCTTTC ACTGAGCACA
 207151 TGATTAGTGT ATCTGCTTTC ACCATCATGG GAGAAGGACC ACCAACAGTT
 207201 CTCAGTGTTA GGACACGTCA GCAAGGTAAG GATGTATTTC CTTTGAAACA
 207251 ATTAACGTCA AATATTGCTG TTGTACACTG TGATACTTTT TTTTCATTCA
 207301 TATGTTTATT CTCTTTTTTA AGTGCCAAGC TCCATTAAAA TTATAAACTA
 207351 TAAAAATATT AGTTCTTCAT CTATTTTGTT ATATTGGGAT CCTCCAGAAT
 207401 ATCCCAATGG AAAAAATACT CACTATACGA TTTATGCAAT GGAATTGGAT
 207451 ACAAACAGAG CATTCCAGAT AACTACCATA GATAACAGCT TTCTCATAAC
 207501 AGGTAGAAAA CAATGTTTTG TTGTTGTTGT TGTGTTGTT CATTTTACAT
 207551 TTCTATTCTG GTGGAAAAATA TGCCCATCTC CCTGTGCCTT ATATACTACA
 207601 GAACACATGC TATGTCACCT CATATTTTGT TGTGTTGTT CACCATGAAT
 207651 CTTTTTAAAA TACCTGCATA CATAACTCGA TTAATGTGT TTTTCTTTTA
 207701 CTAGATTAC CCACAATGAA GTAAAAAGCA TCAGATCACA AGCTTCATAG
 207751 AAATTTACTT AACTGAAGGA ATACTGTATC TGGTATATCA AAATAACTCA
 207801 TTATTGAAGA CTAAATGTA CGAATGCAAA AATCAGCTGA AGTAATTCAG
 207851 CTGACATGGT ATTTGTGCCA AGTCAACTAT ACACCCTGCA GTGTGCCAAA
 207901 AAGTTACTTT TGCAACTTTA AATTATTGCC TTAATATTTT AGGAGAGAAC
 207951 TTGAAGTCAC CAACATAGAA AGGCCTATAA GCCCAAGAAT TTGAGGAGAC
 208001 TGCAATTATT TGGAAGCGAT ATAGATATCT AGTCCCCCGT ATAAATCTCT
 208051 CTTACTGGCC TTATATTAAA TGGCACCAAT CCCAAGAGTA TTATTTTAAG
 208101 GACATTAAAC AGTTGTCTC TTGTCTTAT AGGGTTAAAG AAATACACAA
 208151 AATACAAAAT GAGAGTGGCA GCCTCAACCC ACGATGGAGA AAGTTCTTTG
 208201 TCTGAAGAAA ATGACATCTT TGTGAGAACT TCAGAAGATG GTAAGAATAT
 208251 CAATTGCAGC TTTAATTTT TAAAAAAGT GGTGTGAAAT GCTCACTGCC
 208301 TTCACTTCAT GCTACCTCTA GGGTCTAAAG CAACAAACAT CAATAAAAAAT
 208351 ATAGGTACTA CAAATGTTCT TTTCTTCCCC TAGAACCGGA ATCATCACCT
 208401 CAAGATGTCG AAGTAATTGA TGTACCGCA GATGAAATAA GGTGAAAGTG
 208451 GTCACCACCC GAAAAGCCCA ATGGGATCAT TATTGCTTAT GAAGTGCTAT
 208501 ATAAAAATAT AGATACTTTA TATATGAAGA ACACATCAAC AACAGACATA
 208551 ATATTAAGGA ACTTAAGACC TCACACCCTC TATAACATTT CTGTAAGGTC
 208601 TTACACCAGA TTTGGTCATG GCAATCAGGT ATCTTCTTTA CTCTCTGTAA
 208651 GGACTTCGGA GACTGGTGAG CTTTGTGTTT GCTTTGTTTG TTTAATAATA
 208701 CACAGTGATA TAGTAAGCAA AGCTGATAAT CGCCATGTTG TTTACATTTT
 208751 ACATAACCTA AAATCCCTCA TTATTTTGTG TGTATAATC CAGAAATTAA
 208801 TTTTCTTTTT CAGGCAAAAAG TGCAGGAAAA GGTTTATTGT ACAAATTTTT
 208851 AAGTCTGATT TATATAAGGG AACTTCTAAT CAAAATCTGT GAATTTTCAA
 208901 ATGAAAAGAC CTTGAGAAAC CAAGGATTCT TCAATGTAC CTATAAAATT
 208951 TAGATTGAAT GGCTACTTGC TTTGAGTTA GGTAAAAGT AGACATACTC
 209001 ATAGGAATAG ATTTCTGAGT TCTAATGAGG TATGTGTATA GATAGTGGTG
 209051 CAGAGTGGGA GCACGAAAAT GGCATGCCCTG GAGAAGACTT ATGGAGGAGA
 209101 CAGCATTTGG CCTGGATCTT AATGAGGAGG TTGGAATGGG CAGAGGATG
 209151 TTATAGAGCA GGGGTCCCCA ACCTTTTGTG CACTGGGGAC CAGTTTCATG
 209201 GAAGAAAATT TTTCCCTCTC CTCCGGACTA GGGAGGGGAG TGAGGTGGT
 209251 TTCTGGATGA TTCAAGCACG TTACGTTTGT TGTGCACTTT ATTTCTATTA
 209301 TTATTACATT GTAACATATA ATGAAATAAT TATACAACCT ACCATAATGC
 209351 AGAATCAATG GGAGCCCTGA GCTTGTGTTT CTGCAACTAG ATGTCCTAT

FIGURE 3GGG

209401 CTGGGGGGTA ATGGGAGACA ATGACAGATC ATCAGGCATT AAATTCTCAT
 209451 AAGAAGCACA CAACATAGAT CCCTTGCATG GGCAATTCAC AATAGAGTTT
 209501 GCGCTCCTAT GAAAACTAA TGTCGACACT GATCTGACAG GAGGCAGAGC
 209551 TCAGGCAGTA ATTCAGGCGA TAGGGAGTGG CTGTAAATAC AGAAGCTTTA
 209601 TGATGCTCAC CTGCTGTGTG GCCCAGTTCC TAACAGGCCA TCAGCTGGTA
 209651 CTAGTCCGTG GCGCTGGGAT TGGGGACCCC TGTTATAGAG GTTGTCTGGAT
 209701 GGGTTGGGAG AGGATATCCC ATCTAAAGGA AGTAAACAA GCAAGGAATT
 209751 ACTTGTGTTT TAGTTTCGGT GAAACTAGAG TAAGACAGTT TGTCTGTAA
 209801 TCTTATTTTG TTGTTTATAT TGTGTTATAA TTATATATTG GTGGCATAAC
 209851 TATTAGGCCA ATTCTACAAT GTATTTTGAG AATTAATAAC TAAATATAAA
 209901 GTTACTATTT TAATTGTACG TTTAAACAA TAAATATTTA CTGACTAGAT
 209951 ACTGGTGGAA CCACATGAAA TAATTTTAT AGGTCACAAA TGGCCAAATA
 210001 TCAGCAATTT CATATAGTTC AGCCAGATAC TATATACGAA TTTCTGTCTT
 210051 GACCTTGAGG ATCTAGAAAT CTAGTAAAGT AGCTTACTTT TGTAGAAAAG
 210101 TATCCTGTTG AGACTATTCA CAGAAATGAA TACAATGAGA TGATACAAAA
 210151 GAGCCCATAG ATAATGGCAG TAGTTGAAAG TGCAGGAATA AGAAAGTAAT
 210201 GAAAGGAGCA TTTTACATTA TCAAGAGCCT TGAAGTGACA CTTAATTGAT
 210251 ATTAATCCAT ATATTGGCAT GTTTCATTGC TTTTGTAGAT ATTGTACCTG
 210301 AAATAAGTAT TTTTGAGAAA AATGTCTGCT CTTTAATGAC TCAGTTTAT
 210351 TTTGCAGTGG ATTAAGGAAA TGAACAAGC ATATTTTGTAG CACCTATTAA
 210401 GGGTCACGGG CCCTGTGTAT AGGTTTCACA GAAACTGTCT TTTAAAAATT
 210451 CTAAACTAAA GCAATACATT ATTGTTATCT TCACAGAAAA CTAAGCTTAA
 210501 TGAAAAATGG AGGGTTGAG AGGTTTCATT ATTCAAAAAA TATTTATAAT
 210551 ATACCAGGCC CTACTGGGGA TAAAGTAGTG TAGAAGAAAA GGATTTCCTT
 210601 CCCTCCTTAA GTTTTATTAG TTGGTGGGTG TTTTATTGCC TAATGGCACC
 210651 AGCTGGAAGG TGATCAGCTG GAAAGTGATG AGCTGGAATT AGAATCCAAA
 210701 CCCATCTGAG GTATAAACCC ATTTCCCTTT CACAGCACAT GCTGTTTTTG
 210751 AAGTAATCAA CAAAGCTGGT AAATTATAAA CTATATCTAA GATCTCTCTG
 210801 TTCATTGTTA CACTGATATT TTGTCAATAG GCTTCTGCTC AGCATGGGGA
 210851 GGAAAGTAAT AACTTTGAAA GATTCTATTG TGATATGAAA TAATAACCAT
 210901 TTTTATGAAT GCTTATCAAG TATTTGTTTT AAGTGGCCAT AGCATCAAGA
 210951 ACACCTTATT TTAATGATGA ATTATAAAGC AATGTTTTTG TTTTCTGATT
 211001 ATTACATGCA CATAATCTTT TACTTAGTAT TGAAAATGTA ATTTTATTTT
 211051 CTGTTTTTATT GTCTGTATGA GTTTAATTCA AAGGCAGGGA CAATAAACTT
 211101 TAAGTGAATA TAAATTTTGA GATTTAGTTT AAAATGAGAA TTTTAATTTT
 211151 GGAAAGTGTC TTAGAAAACA TGCAGAGCCC TTTATTTTTT AGGTGAGAAG
 211201 ACCTAGGACC ATTTGGGTAA AAGGACTCAC AAGTTATAGT ACATGAGAAG
 211251 TAAAGTTGGG GCTTGACTAT AGGCCTCCTG ACCCCCATTA CAGGCCTCGT
 211301 TTAATAGGCT CCTGAGATGG CTAAAAAAT AAAGAGAAGG GGAAACCAAC
 211351 ATATCCCATG GCTTCCTAGC CAGGCCTAAC AATCAGAGTA TAGGGTTTAA
 211401 TGCCCATCTT CCTAATATCT GGTTCCTGTG CCTAAGTTAG GGTGTCTCA
 211451 AGTTCTGTGC ATTTTCACC TGGATGAAAA TGGGAAGACAA TGGAACTTAC
 211501 ATTAGTGACT TTTCTAGAT TATGTTTGCT ACTGTTAAAC CACCCACTTT
 211551 AGCTCCTTTG GCAAAAGAGG AAGCTAAAT GTTAGGTAGG GTCTCAAGTG
 211601 TCATTGAAG CAAGATGAGC TCAAGAGCAA CTATTTTCTT GGGTTTAGGC
 211651 TCAAAATAAT CTTATTAAAT ACAGTAATTA TACCTTCTAT TCATGTAAAA
 211701 AAATATGGGC CCACCTTCA ATATTGTTTC ATGAGAAATT GAGTGATGTG
 211751 TTAACCTAGT GATGTGTTAA TATTACTAAT TAAAAATAGG AGTAAGTTAT
 211801 TTGGTTAAAT GCCTTATCTT TTTAAGAGAA ATAGAGTTTA CTAATGCTTG
 211851 GAAGTAAAC ACCCTTGTGT TCAAGCAGGA AAGATCAATA CAAGATTGAT
 211901 TCTGTGTGTG TGTGTGTGTA TCTCTGTGTG TGTTTGTGTG TGTTTAAATC
 211951 ATAGATGTGC AGTTTCCAA TAAGCCTAAG ATTAGTTTTT ATTTTCTCAT
 212001 ACTTAGGGTG TAATAATCAT AAATACAAC TTAGAAGATT CCCATACAAA
 212051 TTACTCTTTT GATGATCTAT ACATATTCCC TTTCTTTT AAGACACAAC
 212101 CATCTTTACT GTAAGCCTTT AACAAAACAC CTGTCTGAT TTGGGGCAAC
 212151 AACCATGAGT GGATAATAAC TTAGATGTG ACCAAAATTT TGTGTAGACC
 212201 CCCATAAATT TATTGTATT AATGAATAAC ATTTTAAAT TTGTCTGCAT
 212251 ACATTAAAGC TTTATATGCC AAACAATAGT CTTTGGCAG ATTCAGGTA
 212301 ACTTCCCTTT TTTACTATCA TCATGGACTA TGTATTTTTT CTGTTTTGGA
 212351 ATTTTAAATG GTTCAGCTTA TTCCAACCTGA TTATAATCAT TCCTTTTAT
 212401 CCATCAGTTA TCTACTTTAT AAAATATTTT TATAATTCGG GGACACTCTG
 212451 CTATTTTCTA AAATCTAAA TGCGTCATTA CTCTTCAAAA TCAGTAAGTC
 212501 ATTGAGTCTG TCTTGCTTTA TCTACCTGAT GATCCAGCAC TAGTTATTCC
 212551 CTAAGGGTAA ATGAATAAAA ATGCAAAGGA TATCAGCCTT GGGTCAGGAA
 212601 TACATATTTA CACACTGACT ACTGGTGGTA GGCAGACAAC TGCAGAGAGA
 212651 AAACCTTCAAT CTAATGGGAA ATTTTCAAAA TCAGAAGTTA CACCGAGCTA
 212701 TAAAATTCAA GCATAGCATC ACAAATCCC TTTTGTAAAT TAAAGAGTTT
 212751 TTAAACCAA TCTTTTATCT ATCTGTTCCT TACCTGTGAG TTTCTCTCTT
 212801 GTTTTAATAT ATTCTGTATC ATATTAAATA TATTGATTCA TTCACTAAAC
 212851 AGCTTTTATG GGTTCATAT TATGTTCTAC CACCGTACTA GGTAAGTAG
 212901 CTGTAGCAGT AAACAAGACA CAATAAATCT CTACCTTCTT GAAACTTGAC

FIGURE 3HHH

212951 ACTAGACAAT CAGAAAATTA GACATTAGAA AATAAATCAG TAAACAAATT
 213001 TGTGATTTTT GGTAGTGGTA AGTTTTACTA AGTGAAAAAT ATCAAGGATA
 213051 GAAGAGAGGA AGAGTAGTGA GTGGGCTATT TGAGATGGAG GACTGAGGAA
 213101 AGACCTCACT GAGAGGTTAT ATTTGCCAG TGATATTAAT GAGGTACAGG
 213151 ATTGAATAAG ATGAGGATGA GGATGAAAAG TGTTCCAGAG GAAGAACAGC
 213201 AATTGCCAAC TTCTTATAGA GGAAAAAAT TGTTGGAGTTG GGGCAGAGCA
 213251 GGGCATTTCT GTCACCTGAA CAGTGTGAGT TGGGGTAGAG AATTCACAGA
 213301 TGAGGCGAGA GGCAGAGGTG GATCCTGAGA TTCTTAGGTG CCATTCTAGG
 213351 AACTTTGGAG TTTAATTTTA ATGAGGAGCT TTTGGAGAAT TATGGAATAG
 213401 GAACATTATA TGATTACAG TTTTCAAAGA TTGCTGCTGA ATATGTTGAA
 213451 TGTTGAAGTA AAGAGAAAAA TGAAGATAAA CTATTAGATT GTTGTCTGA
 213501 GTATCTGGGT GAGTGGTAGT GCCATTTACT TAGATGGGGC AGTCCAGGGA
 213551 AGAGGTCAAT ATGGAGAACA TCCAGGAGTT CTGTTTGCAA CATGTTTGAA
 213601 ATATCCAAGT GCCATTATGA AGGAAGTTAG ATAAATAAGT TTAAGACTCA
 213651 GGGAAAAAGT ACAGAGCTGA ATATATAATT TGGAGCCTCA CCACATCTT
 213701 GGTATTCAAT CAAGGGATGA GGATAAAGTC ATATCACTGG ACAACAGGGG
 213751 GAGACGTTAA GAAGCTTACA GCTATGTCGT GGGCAATACC ACACATAGAC
 213801 TTTGAGAAGT AGAAGAGCTA ATCAAGGACA AAGCAGAAGT CACTGGAAAT
 213851 AGAAGGAAAA CCAGAAGAAG ATAGTGCCTT CAAAGCCAAG TGAATAAAGA
 213901 TTTTCAAGTA GAAGGAGTTT ATTCCCTATG TCACATGCTG CTGACAAGTA
 213951 AAGTAAGATG GGGCATACAA TTGATTAGTG TTTGGCAAGA AGGGAGGTCA
 214001 TTGGTGACTT CACAGGAGTA GATTTTACAG AAAAAATAAT GGAGAAAAAT
 214051 GAAGTCAGAT TAACAGAGTA TGATAGGCAA AAAAAATGT AGAAATGAG
 214101 GAATGGCAAA TTTTGAGGAA TTTTGATAAG AAGTGGAGAG TAGACTTCAG
 214151 TAATAGCTGA AGGAACAAGT GCAATCAAAA GAAGACTTTT TAAATCCAG
 214201 ACTGTATATT ACAGTGTATG TGTGTTTACA TGTATCTCTG ACTAACTTCA
 214251 AATGTAAAGT CTCTGAATAG GCAGAAGGAG TGAATCCAG TGCAGACGTG
 214301 GAGGGATAGA GCTTGGAAAG GAGGAAAGAG GGAAGGCAGT TAAGGGAAAA
 214351 TTTGAAGTCA GATGATAATG TAGCTCTCTT CTCAGTGTIT TTATTTTGC
 214401 TATGGAATGA GAAGCAAGTT TATTAGCTTC AAATAAGAG GGGGAGGGCA
 214451 TATCAGAGGT TTGTGAAGAG AGAACATGGT GAAAACATAC TTTAAAGAGT
 214501 GGGAGACTGA ATTAACATAA ACAAAACAT TAGCTATCAG GAAATGAAAA
 214551 GGATCCATTT GAGATTTGAT GTTATAAATT TAAGTGGAAC TAGTCAGCAT
 214601 AGAATGGTGT TTTATTTCAGC CATTTCAGC TATTACACTG GGCATGTGAA
 214651 GCTAGCAGAG TTTTGTTTAA TTCCAATTGT AATTTTCCA GGAAAGTAAA
 214701 ATAGAAACAG AAGGACCTGA TGGATATTGC TAGGAAGTGA TTACAGTGAC
 214751 TGTGGACTCT AGCCTGAGCA TGTAGGAAA TGAAGGCATA AGAGAGGTGA
 214801 TGCACAGTGA AGATTTGATG AGGGTCAGAG AATTGTTGGA TTCAAAGTAC
 214851 AAGAGTCAGT AAACGGGAAA GATAGGAGTC AGTTGTCAA GAGAGGAATA
 214901 TTGGCAGTTA TTGGTAATGA CAAAGTCTTA GGTGTGCCA TGAAAGCCAA
 214951 TGAGGTACGG TGGGGTAAAG TAAGGTGGGG GAAAAGATTA TTGGAATTAT
 215001 AGAGATAAAG AAATACAGAG TCCAGGGAAC TGGATAGATC ATTGTCATGG
 215051 AAGTTGGCCT CTCTGAGTAG TAGGGAAGAA GTCAGTTATC AAAGTGATAG
 215101 CATCTTTAAG ATGTTTCAGAG AAGTGACAGA GGTATTACCA GTTGTCTGTC
 215151 TTAAGAGGGG GTAGCACGTG ATGGTATCTA ATGGAATGGG GCTTCAAAGG
 215201 ATCTGTGGTT CTTCAGGAAG AAAAAAGGAG TAATAAATGC AACTACCCAA
 215251 CTCCTACACC CTATCGTTAG TGAGACTATG GTAGAAAAAC AAACATGATA
 215301 CCCAAGAGGG CTAAACTGTA GTAGTATTTC TCAGCAGGTC CAAGATTTCA
 215351 CTTAGAGCTA GAAAGTTAAG AAAGCATTGA GGGTAGTTGT TGAGGATTTT
 215401 CCTCAATGTA ATGGGTTGGC CTGGGGAAC ACTAGAGAAG ATTTAGCACA
 215451 TTTTCAGATAG AAAGGATAGT GGAATTATAT TGCTAAATCG AACTATGCAT
 215501 TGAATTGCAA TCCTCTCAA GTTTTAAAG TATCAATATT CTTAAATTAG
 215551 TTTTCTCTAT TAAGTGTGCC TTGACACCAT AACCCATAA CTGGTAACAA
 215601 TCAAGGGGAG GGACACTGTA TCTACATTTT TAAGGCTTCT GAATTTTATT
 215651 TATCTACTAA ATTTATTATT AGTAATTTT ATATGCATTC AATTTAGAAT
 215701 ACTAATAAAA AGTTTAAATT CTTCATTG AAAGAAAAGA GTTTTATAAC
 215751 AGAACTCTTG AATGGCAATA ATATTTACCT ATTTAGTTTA TATTGTTTAA
 215801 CCCTCCAAGT TAATTATTTA TGTATTGTT CTATGTACTC AATTTTAAAA
 215851 CCATTATCTT GGCCACTCTG ATCTTTCATC TGTGGTAAAT AGTTTTCTAC
 215901 CTAAAGTACA TTGTCTACAA TTTCAATTAC TGAGGATGTG TTGAAAGCAT
 215951 TATCCCTCAA TTTTTTTTAT TGTCTGAATA TGTTTTTAGT TTGCTACTCT
 216001 TTATTTTCT GGGTATGGAA TTCCAGTTGT TTTTCAGTTG ATGTTGATTG
 216051 TCAGTCTAAT TGTCTATCCT ATGTAGAAGA TTTTTTTTT CTGGTACTGT
 216101 TAAGATGGTT CCTTTTTTGA TATTCTGTAT TTTCACAAAT ATATGTCTAA
 216151 ATATGGTTTA AAAATTCTG CTTGAGATTT ACTGAAATTA TTTGATCTGA
 216201 TGTTTGATGT CGTTGAATAA TTTTGATGAG CCTCAGCCAT TATCCCTTTA
 216251 AATATTCTCT CATTTTCTCT ACTATTTTAG ACCCCCTCCG GATATCATCT
 216301 ATGTCTCAAC TGCCATTTTA TATTTCCAT AACTGTCTTC TTTGATCTAC
 216351 ATTCTTGATA ATTTCTTCAA TACTATCATC CTTTTCATA AAGTTCTCTT
 216401 CTTCTTTATC TAATCTGCTC TTTAATACCT CAAGAGATT TTAATTTTAG
 216451 TTATTTTGTT CTGTTCCAGA AGGTCTATCT TGTCTCTTT CAAACTTGCT

FIGURE 3III

216501 TGGTTATTTA ATATTATTTA CCATTATTTA AATAATTAT TGTCTATATT
 216551 TTAAATATATG TTTGATTCTT TGAAACACAT TAAACATTTT TATTTTATTT
 216601 CAATATCTGG AATCTCAAAA TCTGACTACT GTGTATGTGT GTGTGTGTTT
 216651 TCTTTTCTTT TCTTTGCTG ACTTTCAC TAATATCTG ATTTGCTTGT
 216701 GTGTTTAGCG ATTTTATCAG TGAGCTCATA TTCTTTGAAA CTTTAGCTGT
 216751 GAGAAATTTA TGTGGTTTGT GTTGAAGTTG AGTTCCTCCA GCAAGTATTT
 216801 TTATTTACTT CTAGTTGCTT AGGAGTAATA GCAGCTCAGG ACTACAGTTT
 216851 TATTTTAAAT TCTGAAGTGG AGGTTTCTTC AGGGTACATA TAGATATCAT
 216901 GGATTTAGTC AACATATGAT CATAGGAATA GGCTTATAAT TCCAAAACAG
 216951 CATATTATTT ATTTCTTTTC TATCTCTCCA CCCAGAGGAG TGGCAACAGA
 217001 GAAAGAAGGT TTCCTTTCTG TCCTCTCTGC ATGGTAGATT TATTTCTCAC
 217051 TTCCCATTTT CTGAGAATGA ATGCATCACA TTGCACAAGA CCAGGAGTTA
 217101 CCATTCACAT AGACTTCTAT GGTACATGCA GAAGAATCTG AAGTATCCCC
 217151 TAGAATTTTT CAGTATAATA ACCCTGGTTA AAGTTGCATT CTTTGGGGGT
 217201 TTCAGGTCTT TCTGCAGGGA TATCACTCAT CTTTCAGCGG GCCCCAGGGT
 217251 TTTATAGTCT TTCTCTGACA CACTACACAT ATGTTACTAT ACAAATGCAA
 217301 AGGCACCAGG ATTAACCAAT CTATGGCAAG GCAAACTGG CTTTAGTATC
 217351 AGCTTCTCTC TCAGGATTTC TGCTTTTGCA TTTTGTTTAC TTGTTTGT
 217401 TTCTGTGACT TTTTGTGGCC AGTCACCACT GAATTTCTAAC TTTCTTTTCA
 217451 GCACCACAAC TTCTTAAAGA AAATTTATTT TAATGTTATA CAGAGTTTAA
 217501 GTTATTTTAA GTAAGATATT CACTCAGTTT AGGGTATCTG TTCCAATATT
 217551 TTACCGGAAT TAGAATCTTG TATATAGTTT TGTACTCAAA TATACATAGA
 217601 AAACCATTTT ATGCATAATG TATTCAGTAT AAAAAATGTT TTAGATACAG
 217651 AAAACTAGTG TTTTACTTAA TGATATCCCA TATTTCTGGG AGATGGTTTT
 217701 GCTGCCAGGT CATAATATGC AACCTCACAT CCAGGAGGGG CTCCTTGCCT
 217751 TGTCACAGAC CTTGTCTGCG ACCAAAAC TAACCTACTG CTTTTTTTCA
 217801 TATTATTATT AATGAGAAGT AGAATCAAGT TTTAAATGTT TTTAAATTTCT
 217851 CTTTCTTGCA TCTGTGTGTT CTTCACTGCA AGATATGTTT CTATAGTTCC
 217901 AAGTATTTTA GTAAACGTAT CATCTTATAA CTGTTATTCT GTGGAATCAT
 217951 AGTAGCATTT TCTTTTGAAT GAAAATTTT CTTATACAGT TGTAAGAAGT
 218001 ATAATTTATT TATACTTTAC TTCAATTTAG AATAACCTAG TGCACCTCAG TGACAATTTT
 218051 CTAGTGAAGG TTCAATTTAG AATAACCTAG TGCACCTCAG TGACAATTTT
 218101 AGCAGAATAG ATTTTGTAGAA TGGAATTGTT TTATGTATCT ATATTTTGT
 218151 TTCTTTCAAG GCCTGATAGT GCACCAGAAA ATATCACTTA CAAAAATATT
 218201 TCTTCTGGAG AGATTGAGCT ATCATTCCTT CCCCCAAGTA GTCCCAATGG
 218251 AATCATAAAA AAATATACAA TTTATCTCAA GAGAAGTAAT GGAAATGAGG
 218301 AAAGAAGTAT AAATACAACC TCTTTAACCC AAAACATTAA AGGTAAAGAA
 218351 ACAAATCTAA TATTGGATAT TTGCATTTAT AATGACAGAG TAGCCACAAA
 218401 TATTAGTTTA ATGTTAATAG TTTTCAAGTA TTTTCAAGTA GGTATTACA
 218451 ATTTTGTCTT TTTGGTTAAA TAAGCTAGGA GTTTATTGCA GGTACATGA
 218501 AAGAATACTA TAGATCCATC CTTTTCACCA TTATCCTATA TCATTTTGT
 218551 TTCATAAATA AGAGCTACTA TTGCCAAAGA ATGACATTTT CACTTAGTTT
 218601 TTATTTTGGG AAGATTGTGT TGACAGCCAT TTCATAGTTT GCCTCTTGCA
 218651 TATTATTAAA TGATATTTTG TAAGTTTCAA CTTACCTATT TGATTTCTCT
 218701 TTAGTACTGA AGAAATATAC CCAATATATC ATTGAGGTGT CTGCTAGTAC
 218751 ACTGAAAGGT GAAGGAGTTC GGAGTGCTCC CATAAGTATA CTGACGAGG
 218801 AAGATGGTAA ATATAATAGT GGATATTGAT ATACTTTGAT TCTATAACAT
 218851 TCCAAGAAAC ACACGTATAG AATGAAACAA TGTAAGAACT CCTCTAGTCA
 218901 TGGGTATCAG TTGTGTACCA TACCAGCGTT ATACAGAGAT TTCATTGTCA
 218951 TGGTATAAAA GAAGCTAGCA ACATCAGATT TACATTCAGT GAAATCAGGC
 219001 ATAAAATGTT TTTTATTTTC TGAAGTCATC AGTACTCTGT AAAAAACAGT
 219051 CAGTCATGTT TTTCCATGGG GATTTTCAAG GCTTAAATTT TGGTTTGAAC
 219101 GTTAACTGAT ATATGTCATG ACTGAGTTTT TCAACTTTTA CATTTTAAAG
 219151 AATAGACATT AACATGAGCT TTGAAGCAGA TTATGTTTAT GTAAATGTTT
 219201 AGCACTTTTT TACGATATTA ATGATTAACT TGATAATGAG ATCAGGCTAT
 219251 TGTACAGGCT TCTGCATAAT TGGACAAGAT GCTATCCCC AAAGTTAGTA
 219301 GCTTTTCATC TGAATATTTA AACATACCTT TCCCTAACCC AAATAAATC
 219351 AACTTTACTA CTGAGGCCAC TTTACATTGA TACCTTACCA AGTTAGACAT
 219401 ATATTATGCT AAGAATATAA CTTCTGAAAG ATATATTGTT GTTAGGATTT
 219451 GCATTTTATG TTTTATACAT TGCAATTTTA AAGAAATTTA TTTTATTTT
 219501 CTGTAAGAGG AATTCTTATT TCCAAGAGG GTAGGCCTGG AAGTATCATA
 219551 CGTGTTTGTG GAGTATCTTT TCTTTTTCAT CTTTCTTTCT TTCAAGTTTC
 219601 CCCATCTTCA AGCTAGGCCA TAGCCTGTGA CTGTTAAGGG CAGAATGTGC
 219651 TTAGACACTG CTAGGAAGGG AGACTTTTCC CTGCATTGCT CTCTTTCTTT
 219701 TCAAAATAAT AAAGCTTCA AATCCCTCTT CTCTTTTGTG AGGTCTCTCC
 219751 ATGTTTAAAC CCTTACCAA GCATCTTGGC TAGGGCTGTC TGTGTGCCCC
 219801 CAGTTTCTAA GTGGGCTGCC TCTGTGGGTC AGTTTCCCT AATCATTGCA
 219851 TCTACTTACT AATGCTTGCT TTTCCATCAA AACTTACCTG CCCAAATCC
 219901 AATTTTCTT CATAAATAGA TTCTCCTTGC TCTGAAAGT AAAATTATCT
 219951 TAATAAAAAA ACCTTCCAAA TGAGTCAATG GTTAAAAACT AGGGAAGAAA
 220001 GTTAGTGCTC TTTTCTATCT TATGTAATAC CTAAGATTAT ATGTAGTAAA

FIGURE 3JJJ

220051 AATTTTACCA ATGCCCTTTT GAAAATAGTA CCCACTTCTT TATAACTAAT
220101 CTAATCAAAA GTTCCTAATG GTAAGAATTT GAGATCTTAT ATGATGGAAT
220151 GAGACCAGTA GTGAACATAT ATTTTGAGCA GGCAGACGTT TTACCACTCA
220201 AGTCAATAGT TCCAAAGTAT GTTGTGCATC TGAATTACCT GGGCTGTAA
220251 AAATATGCTT CCTCAAGGTA AAGTTCCATC TAAATTCCTG GCCAAGTCAT
220301 ATGATTCTTA AGGAACAGGG TAAAGAACAA GACTCCCTTG TTGAAAAATT
220351 ACAGAAAATC GAGAATGGAT AAAGATCTGA GAACATTTGC CTCTTTGGGA
220401 ATTAGGAACCT CCTTGCCCTC ATGAAGCTCA CGTTTAGAAC AAGAGACCTA
220451 AATTTGACAA ATGTGTGGAC AAATAATTTT TATGATTTTT AATTACTGGT
220501 ATAAATGTTT CCCCAAATTA TTCACCAGGA CAAAAGAAGG ACCTAAGTTA
220551 CTCTGGGGTG TGAGGTAAAG CGTAGCGGTG GAAGTTATGT CGAAGCTGTG
220601 ACATGAAAAT GAATAAGAG GGAGGGTGAG AAATAGGAAA GATCATGCCA
220651 GGTAGAGGAG TGAGAGATT GTGAAGTCCT CATGCCAGGT AGAGGAGTGA
220701 CAGATTGTGA AGTTTCTTCT CAGCTACCTT GAGATGCTCT GAGATGACAA
220751 ATTGAATGCA CTGCAAAAGT TCTAATTTTT CTAGTTTCAA TTTTGTAGA
220801 TTGTATTTTA GAATACATGT GCCAAAATAT TTTAGAATAC ATATGCCAAA
220851 ATGATTAAAA CTTAGTCTGC TACAGTGGAT GTACAGTGAT TTTTGTAGAT
220901 AGACATGTTA ATTACGTTTA CTTAGCAATA AAATGTTTTA CATTAAGAAT
220951 AAAATATTCG GAGATCTACT GAAGGTTAGC TTTTAAAGAC ACCACGCTT
221001 ATCTGGTATT CCACATAAGC ATCTTAAAGC ATATTATAGA GTAGAAATGG
221051 TTAGTTGCAA CATATTAGTT TCTAAGTTAC TGCTATTTTT AATTGAAATC
221101 CTTTTTGTAA ACAATAAACA GATTTTACAA GGATGCTAGG AAAAATATTT
221151 ATAGGTATTT GCTTTGACAA ATGAAAGAGA ATTTTCAGAG ATAATCTTA
221201 TCTTGGGAAA CAGACATCTC TAAGTGATGT ATACATTCCT GTGATAATCA
221251 ATATTGTATA GCAACATTAT TATAGTGCCA GTGAAAATAA CAGAAATGAAA
221301 ATACCAAATA CAGCTATCAC TATTATTCTT TATAACTTGT CTCATAAACT
221351 TTTCTGCTGCT CAATAAAATT TTTTGGGAAA ATTATTGTTA GTTAAATAAT
221401 GAAAACATGC ACACATGGGA ACACATACAA CTACAGCTGA GATTATTCAG
221451 AGAAGTAAAA AAGAAAAAAT ATTGAAGTAA GTCAGGTAGC ATTCTGTCCA
221501 AATTATTGGA AATAGTGATC TGTATATGAA CTGATTTTCA ATTGACATTG
221551 TTTAAAGATG TAAACAAATT CTCAGAATT CTGTTAGCTA CCTATGAATT
221601 CACATTCCCG TGCATAACTG TAACAATGAA CCAAATTTTA GTGTTTTCTT
221651 TTTTACATG TAAAAAGTTG TATTCCATTA TTCTAAGACA TTAAGTGTGT
221701 ATTACACAGC AGCTGAGAAA TGTCATTCTA AATGTTTTTAC CTAATGGGAA
221751 ATATAAAGTT GGCTGACTAT TTTGACGTAA TGTTTTTTAT GCTTATCAA
221801 TGCCAAATAG CAAATGTATT TATATTTTAC ACTATTACAG CAGAGTTACA
221851 AGTAGATTCT AAATATTTT CTTATTACG TGCTACATG GCATTTCTCT
221901 TGTAACCAT TCATTTTGA AGACTGAGTG AACAGAGTTT GATATTATTT
221951 TACTTTTTAA TGACACAACA GAGATTGAGG AATGTAGTTT TCATCATTG
222001 TGAGGTCAGT CATTTTAACT GCTTTCTCAA TGTATGCTT ATCACTTTCC
222051 CAACTTCTTG GATGTGTGAT TTTTTCCTCA CCTCTTTTTT ATGTCTAGG
222101 GATCTCTTTT ACTGTATATT TATTCACCTT CAATAAAATT TTTATTTTTA
222151 TTAGAGGATG ACAGTTGACC AAGATGTACT TGAACAGTAG GTGAGTCACT
222201 GTGACATACC CCTTGTCTT CTTTCTCATG AAATATTTTT TTCCATTGAA
222251 TCACAGAAAC AGATGTTCTA ATACCACCAT GCAAAATCTT CCTTTATCAT
222301 CTCATTTTGA AAGTAAACAG TCTCTTGTC TTCTGGAGAA AAGCACTGAA
222351 CCTAATCTCT TTACCAGAAA GTTTATAATA AAAATTGTGT GCATTTCCAT
222401 GTTAACCTTT TCTTATATAT GTTTAATAAA ACACATTATT CTATACCCTA
222451 ACTTTACAGC TCCTGATTCT CCCCTCAAG ACTTCTCTGT AAAACAGTTG
222501 TCTGGTGTC CGGTGAAGTT GTCATGGCAA CCACCCCTGG AGCCAAATGG
222551 AATTATCCTT TATTACACAG TTTATGCTG GTAATAATTT TTTTGTGGA
222601 AATAGTTCTG AGAACAGATA TTAATCTGTA ACATAATAGG AATGTAGCTT
222651 TTAGATTCCA GAATGTGGTG CTACATTAGG AACCTGATTA TTAATAGGCT
222701 AGTTAATATG TTTTGATTAA GAAACAAGTT TTTCCATATT ATGTAGTGGT
222751 TCAATCATGG TCAAAATGAAA TAATTTTGCA ATTAATAACAA AAAATTATGT
222801 GTTACGCATA ATTATACTAA ATTCTACTC TTAAGAAGTCA TTGACAAGTC
222851 AATTTGTATG AATGTAAGCA TATACTTTTA CACTTCTCTA AGTTTACAC
222901 AAGTANNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
222951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
223001 CATGAGAACT TGGTAGATTG AAATCTTTAC TTTGAATGTA ATGTAATCC
223051 TCTTTAGATT CACCAATTAG GTAACACATT ACCTAGTGGA TTTATATAT
223101 TTCAACTCAG AAAATACAAT TTACACAATA CTTGTAATAA CATAGCCATT
223151 TCCTTTTATA TTTCTGAATT TGAAGGGCCA GCATTGAGGG AGATGCCATG
223201 ATGTTTTTAA GAAGTCTCCT CTTCTCTCTT TTCCTAAGTT AAGATTTTTC
223251 TTTCCCTAAT TCCCTTTTAA CCCCTTTACA TATTTCTCTT TAAGACTATA
223301 TTTTGTGTTT TCTTTGTTGC CTGATTCCTA GTGACTTTGC CTAGTCGTGA
223351 CGAAAGTGGG AGTGTCTTGA CTCCAGTTA GCGAAAAGGA AGCAGGGAAG
223401 AAGGTTACCA TTCCTTTTCA TTACCTATT TATTATTCA CTCATTCAAT
223451 CATTGAACAA TATTGATAGA ATACCTATAT ACTCATGAAG AAGACTCACA
223501 TAAGACCGTT GCCCTCAAGA GTGTTGTATC TCTTACACTC CCAAGAGATA
223551 ACTGGATTAT ATACCATAA ACAAGCAAAC AAGGGAATGT TGGGGGAAGG

FIGURE 3KKK

223601 AGGTCTACTT TTGATGGGAT GCTTCAGGAA GTTCTCTTTG AAGAAGTGTC
223651 ATTGAGCTGT GATCCAGTTG ACAAGAAAGA GCTTCTTGCC ATGTAAAAAT
223701 CTACAGGGCA GAACCTTCAA GAAGGAGGGA ATACCAACTG CACAAGCTCT
223751 GTGGGGAAAC AAAACTTGTC ACTTTGAAGA CCAGAAAGGA GGTCAATGTT
223801 GCTGGGGATT AGAGAACCAG AGGAGGGTAA CAGTGGGGAC AGGAAATAAA
223851 GTTCAGGAGT CAAGCCATGG TAAGGATTTT GTTTTCATT TAACATAAAA
223901 GGGAGTTTCAT AGATAATTTA AATCACTTTA GATTCCCTAT AAAGAATGAA
223951 TTGTCAGGGA CAAAAGTGTT AGCAGGGATG CTAGGCTATT TTAGTAGTCT
224001 GGGAAAGAGA TGGTAGTGGC AACAGAGGGG AGAAGTAGGT GGCTTTGAGC
224051 TACATTTGGG AAGAAAACT AACAGGACTT GGTGATGGAT GGCTGTGCAG
224101 ATAAGAAAAA NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
224151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
224201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
224251 TGGTTACTAC TAGAATTTGA TGGCATTGAT TAAGTTAGAA AAAAATTAA
224301 ATGAAACAGA TTAAGTGAGA ATCAAGATT TTCTGGCTGG GATTTTCAGC
224351 CCTGCATTAT GAGAATAATT GTTTTCTTCT ATACAGTGAT CATGCTCCC
224401 TTCCTAGAGC TTCCGTGTAT ATCTAGCATA ATGCATAACA CACCTAGACA
224451 GAAACACATG TGGTTGGATA GCATTTTAAG GGATGCCGTT CACCCAGTTT
224501 TCTCTCTCT TGGTATGAAC TCCATGTCAA TGGGAGCCTC CTATTCTAGG
224551 AACTTAGCTA TAACTTTAGT TGTCTATTTA TNNNNNNNNN NNNNNNNNNN
224601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
224651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN TACTACAGAA AGATGAGCTT
224701 ATAAAAAGCA GTGCTAAATT AGGCCACAGG AAAATGCTTC CAGTTAAGGG
224751 ATAAGTATGA CATTTCCAAG GGATAATAAA GGGTAAAGAT ATCTTCTGGA
224801 TCCTCCCTCA ATATAACATC AATATCTTCT TTGAACCTTG AAAATAATTA
224851 AATAGAGAGA AGAAAATATA TAAAACCTGT GTAAATATGT GATTTTATAT
224901 AAATGAGATG TTCTTCTTAG AGGATAAGAA ATATTGGAAG AGATTTTTCG
224951 CAGGAAGTTT TTTCTTACTG GAAGTGTGCC TATTTGCAGA ATTAAAGAAC
225001 ACGATCAGAA CTGGAAGACA AATACTAATA GTGTGAGTCT TACAATGAGA
225051 AAAGAAAAAA AATTCCTACC TATGTAGAAG TCAAAATAAA AGATTTGTGA
225101 TGACTATTTC ATGAAGAAAA CATAGCTTAA AGAATAGGCA ACCTTTTCT
225151 AACTGACATC TGAGTATTAT ATAATATAGG TATTTTCTGT CAATATGTAC
225201 ACATTCAGAT TAATTACAT GTCAATATAT GCTATTGGGG ATAATTAATA
225251 ATTTTAAATG TGCTGTAAGA AACTATTGCT GATAGGAAGG TGATTTAGTC
225301 AACCTAGTTC TGCTTAGATC TATTTTATG GAGCTTGAAT TTTTATTCCT
225351 GTGAATCTC TTATTTAAGG TCTATTGGGA AGCCTTACT CTCCGTTTCA
225401 TCTCACACTT TATAATCAT TCTTGTGACC TTTACTCTGT TCAAATAAAT
225451 GTTAGCCATT GCAGAATTCC AAAGGGTATT TGGCATGATA CATTGTAGT
225501 CTTAGTGTA AGTAATGTTA TAGGAAAAAT CCTGTAAAGT ATTTTACATG
225551 TGCTATTTCA TTTAGTCCTC AGCACAATCC TATAACATAG ATACATTATT
225601 ATTTCCATT TAAAGACAAG ATAAATGTTA CTTACAACAG TTAAGTAAAT
225651 TGCTCAAAGC TACTATCTGG GAATTGGTAG AACTACAGT AAGCCAAGGT
225701 TATGATTCCA GTCATGGCAT TTGCAAAAGC TTGAGTCTTA TTCTCATTAA
225751 TGACATTTTC TTTTCTATT CTAGTCTATT GGAAGATATT ATTCAAATCA
225801 AATTTTTTTA TCTTTAAAT TCTGGAATTC TTAGTTTAAA TTATTAATTA
225851 AATGTACTTA TCTAATTAT TTTTAAATA CAGTTTTTTG AGTATTGTGT
225901 TGCTGATTA GATTGTGAAC TCTAAATTA GGTACCATAT ACATGGTCTC
225951 TTGCAATTTG TACAGAAATA ATTGTAATGT CTTTATGTA GTGGATATAT
226001 CAGAGAAAGA CTGAGCTTTC AAAATAAACC CAACTGCAAC TGGATTCTTG
226051 CTCTACCATT TATTCCTGTG TGACCTTGGG CAAAGGTATT TGACCTCTCT
226101 CAGCCAGTTT TCTCATCTAT ACAATTTTGA CAATAATACT TTATTTGTTG
226151 ATTGTATAGA TATCTTCATA TTGCTTCTCT TCCTTGAGAG TATTAATAAA
226201 GTATCTTTGG CATTTATCTT ATGGATAAGT CAAAGTTTGT TTTTAAATTT
226251 TAGATTTCTT TTTTTCAGGG AGTAAATGT TTGAACACAA TCCTTTTGGT
226301 CTGTTCTAGG TTGCTGCTGA AAACAGTGCT GGCATTGGAG TGTTTAGTGA
226351 TCCATTTCTC TTCCAAACTG CAGAAAGTGG TAATTTTCTT GTCATTTATT
226401 TTAATTGAC TTAGTCATGA GTTGTCTGTT TAAAAATAA AAGAACATAA
226451 ATAAAAACTG ACACATAAAT ACATATAATT CTCAGTAGCA TGGCCACTTA
226501 ATTAGTTTTC GAGTCTTTC GGATAGCTAA TTTATTCCTT AAAATATATA
226551 TTATTTCTTC TGATTATAAG AACAGTAAAT GTTATCTTAC AAAACTTTGA
226601 AAAACAAGA ATAAAAATG AAAATTATCC ATAGACTTAT CATATAAAAA
226651 ATGCTTTTAT CATTTTGGTG CATTTCTGGC TTGCTTATT CCCCCATTAA
226701 TATGTATCTA TATGACTATA CATTAATGAA AATAAGCTTG TGCTACATAT
226751 GCAAGTTTAT ATCCTGCCTT TTCTTTTAA CATGAAGTCA TAAGCTTGT
226801 ATAACATAAG ACTTTTGGAA ACACGATTT TAATGGTTAT TATATTATTG
226851 GGTAACATGC AGTCATTACC AAACCAATTT AAGATACCTC CATTTCTCCA
226901 GGGGCATAGA GGAAAAATCT TGATGTCACC TGTGGCTCTT TTCTCTCACA
226951 GTACACATCT AATCTATCAG TAAATCTTAC CAGCACAAAT ATCAAAGTGT
227001 ATTCTGAATC TCACACTCAT TGCTGACATC CTGTCCAACA TTATTCCCAA
227051 GAATTGTTGC ATTATATTTT ATTTTATTA GAATGCAGCT GTCCTGAAGT
227101 CCCTTAATTC CTACCTTATA TCATTCATAT AGACCTCCTT CCAAAGATCT

FIGURE 3LLL

227151 AACTTTCTTA TGTAATTTAT GTGGCTATTA CTTATAAATT ATATTTTACG
227201 ATCCTTTTGT ACAATGTAAA CCTAAACTCT AGTTATTTGG CATCTTAATA
227251 CTAGGCATCT TTAATATCAC TTATTTTTTT TTTATCTCAG ACGTTTTGTT
227301 TCATTTTGAT TTCTTTCAAA AATGACTTGT CATGTTTGTT TTATATTCTG
227351 AAGGATCTTG GTGTTTTACT CTATCAGTTT TACACACTTT ACCATGAGGT
227401 TAATGGGAAT AATTTCCCTT AATTCTAGCT TCATATTGGT TTCAAGCCAA
227451 CTCAAATAGA ACTCAGATTA TTATTATTAT TACTCTATAT AATTAATAAT
227501 TGATAGAAAA GCATAATGAA ATTCTGAAGT AAGTTGATTT TGAAAAATGA
227551 AAATACAATA ATTACAACCA ATTGCAGGGT ATCCACTTGA TATTAGGCAC
227601 TAGACATTTA TAAACATTCC AGAAATCTGC TTTTGGTGA AAATGGTGTG
227651 ATAATTGATT CAGTTTGCTA TGTTTTTCAT ATCTAATGAA ACTACATATT
227701 CCAAAATAGT TAAGGAAATA AGAAATTAT CCCAACTTGT TTGTATATTC
227751 ACAACTATTG ATTGAATTTT TTTCATACTT ATTTGAAACG TTTTCATCAAT
227801 GCATGTATTA GCCCAGTTAT CCTAAAGTAA AGTTGACTTG CCCCAACTCC
227851 AGTTTTTTTAT TTTAGGCAAA GTTCAGTTAA ATACATTAT AAAAACTTTA
227901 CACAAATAGA TTTTATGCAG TGTATTATAT ATTTAATTTT ATGTACCATG
227951 AAATTATATA AATGCAATTC TAAGTTTTAT AACAAAGTTT TTTCTTCCC
228001 AATCTTTCTC TTCCCCAGCT CCAGGAAAAG TGGTGAATCT CACAGTTGAG
228051 GCCTACAACG CTTCAGCAGT TAAGCTGATT TGGTATTAC CTCGGCAACC
228101 AAATGGCAAA ATTACCAGCT TCAAGATTAG TGTCAGCAT GCCAGAAGTG
228151 GGATAGTAGT GAAAGATGTC TCAATCAGAG TAGAGGACAT TTTGACTGGG
228201 AAATTGCCAG AATGCAATGT AAGTATCACA GAACACTTTC TATGTCTTGA
228251 AAAATCTTAG ATAAATTTAA TTTTCATATT TCTAGCATCT AGATACTATA
228301 TTTTACCAG AGTTTTTATTA GTTATTTGAT TACTTATGGT ATCATGTTAT
228351 ACACAACGTT TTATTATTTG ATTACTTAGG GTATCATGTT ACACAATTGG
228401 CCTCATTCAG GTAGAATACA GGAATGGTTT GAGAATTCAA GAGTGAGGGA
228451 TTAATATCAT TTAGGGAATT CGGAAAAGAC TTCATCAAAG GAGTAGCATT
228501 TGTGATACAC CATGGAGCAA GGACAGATAG AGATTTTGTG ATGGTGGCAT
228551 TCCCGGTGGA GGATACTTTA TAAAGCCCTG AGGTGGAAA GTGTAAGATA
228601 TAATTGGAGA AAATATTTTA CTTCCATATG ACAGGAGGGA AGAGTACATG
228651 TAGGGTAATA GTTGAGGTTA AATTGTCAGA GGTAGACTGT CATTGTTGTG
228701 CATATCTTTG GTAAAGAATT TGTCGTTACT CTGGTCATTG ATGATAAAC
228751 TCATAATAGT AATGCTTTAT TATAGAATAA GCATCGTCAT TTTAATTATA
228801 TGATAAGCAT AATAATGCTT TTCCTAAAAT CATTTTGTA ATCTCTGTGT
228851 TACTATTAAT GCAAAACACAG TCAAACAGTT ATTTTGTGCTG TAAATACTTT
228901 ATAAAAGTCT AAAAATCTTC TTTTCAACT TATGATATAG TTCTAATACA
228951 CGCACACACC TAACGTGTGA GCTAGTGGCA TACTACTACT TTTTAGTACT
229001 TATGAGAAAA AAAAGTTCAT TAACAGTAAG AAAGCAGCAT TTGAACATAC
229051 ACAAGAGTAA AATTATTCA GCTCTTTGGC TCTTGCACTG TTAACATGAA
229101 GCTTAAAAAT TCTTACAGAT GATTGTGCTG TAGTTTTACC TTTATTTTAA
229151 GCCACTTGAA ATTCTATTCG TAAAGGTTAA GGTATAAGGA ATACAATAAA
229201 TATGTCCTCT TCTAAACTG CAGACATAAA TGGGTACAAT TAAAATCTAG
229251 CAAATTTGTC TATAACTTTT GCATGTTATG TGTGTATGTA TAAGCATAAA
229301 AGAAAAAGAA ATGAATTACA TGTTCTTATT CTTATGTTCA CCAAGAGATA
229351 CAACATTATT TCTCTATTGA TCTTATTTTA TTTACTAGGA GAATAGTGAA
229401 TCTTTTTTAT GGAGTACAGC CAGCCCTTCT CCAACCCTTG GTAGAGTTAC
229451 ACCTCCATCG CGTACCACAC ATTCATCAAG CACGTTGACA CAGAATGAGA
229501 TCAGCTCTGT GTGGAAAGAG CCTATCAGTT TTGTAGTGAC AACTTTGAGA
229551 CCTTATACAA CATATCTTTT TGAAGTTTCA GCTGTTACAA CTGAAGCAGG
229601 TTATATTGAT AGTACGATTG TCAGAACACC AGAATCAGGT ATGGTTCACT
229651 TTTTGTAGAT AAAAAGATT AAATGATTAG AGAATAATGT TTAATTTATG
229701 TAGATATTTA ATTTAATCT TCTTTACCTT TCAGTAACTT TTTTCCCCTA
229751 ATAATATACC ATAGGCATCC CATCAAGGGT TTCTTCGAAT TTCTATACTC
229801 TTTTATATTA TAGCACAAAA TAAGTATTTG AAAGGAGAAA GATTTGCAAA
229851 AAACAATTCT TGAGCCACTG ACCGTGATCC TCATATAGCT TTTATCATTT
229901 TATAATGTCA GCAATTTTTA GTAATCATCT TGCCCGTTCT AAATGATTTA
229951 TAATCATTTA CACCCTTCTC TCACTGTTAT TGCCATCATC AAAAGCAGAA
230001 ATACCTGCAC TAGCAGAAGC AGCATGTGAT CAACATTAG TTATCAGATA
230051 CAAGCAGTAG CTAAAATATA TACCTACTTA TATCCCATTT GCACTGCAGT
230101 TTCCTCATCT GAAAAATAGA GACAGTAATA GTACCTTCTT TAGGGTGCCA
230151 GTGTTAAAAA TAAATGAGAA TAATTAGATA TTATCATTAC TACTGAATTT
230201 TATGAGAACA TATTTTGGT AAGGTATTCA TATATTTAAT TATGGTACTA
230251 TATCAGTATT CATGTAAATA CATGTATTTA TGTATTTTAT ATATTTATAA
230301 AATTTAAGGG ATATTGATAT AGTCCACAT TACATAAGGT ATTTATTATA
230351 TATATAATAT ATATAGCTGA CAGATATATC ATAATATAGT ATCAGGCATT
230401 AGGTTGTAAT TGCTAATTTT TGAGGTATTG AAAATTATTG GTAGGGTAAT
230451 TTCACTAAAG CATGTTTTTT CTGATAAAAT AGCTGTTGGC TTCTATTATT
230501 TTTCAATTCA TATAAGTTTG AAGTTTTTTT GTTCATTTAA ATAACCATCT
230551 TTGAATTATA CCATTTTCTT CTTACATACT CCTTACTTTT TATACAATAA
230601 AAAAAATGATT TCGGGGGGAG CCAAGATGGC CGAATAGGAA CAGCTCCGGT
230651 CTACAGCTCC CAGCATGAGC GATGCAGAAG ACGGGTGATT TCTGCATTTT

FIGURE 3MMM

FIGURE 3NNN

234251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
234951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
235951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
236001	NNNNNNNNNN	NNAAAACCAA	ACACCGCATA	TTCTCACTCA	TAGGTGGGAA
236051	TTGAACAATG	AGAACACATG	GACACAGGAA	GGGGAACATC	ACACTCTGGG
236101	GACTGTTGTG	GGGTGGGGGC	AGGGGGGAGG	TATAGCTTTA	GGAGTTATAC
236151	CTAATGCTAA	ATGACGAGTT	AATGGGTGCA	GCAAACCAAC	ATGGCACATG
236201	TATACATATG	TAACCTAACCT	GCACGTTGTG	CACATGTACC	CTAAACTTAA
236251	AAGTGTAATA	ATAATAAAAT	TTTTTAAACA	ATGATTTCAT	AAGGGTCATA
236301	CAAGGTGAAA	TTTGCTAGAC	AATAATTTTG	TTTTGAAAAA	TATTTGGAAT
236351	TGTTTTATT	CAATTAAAAG	AATAAACATC	TAAGAAAAAT	AGAGTAATTT
236401	AAAATGTCAT	TATTATTTTC	ATGTTATCAA	TATTACATTT	GAATCCTCCA
236451	AATGTAGATT	ATAAATTTGT	TCTTAGAATA	AATACAAATA	TTGATACAAA
236501	AAGTAAAAAT	TATTTGCTCA	TAATTTTGAG	GGTCATTTTC	TTGAAACTTC
236551	TACCTGTGTT	ATAAGAGAG	AAAATGTTTA	TCAAGCCAGA	TATCCAGACT
236601	TTGTTTCATC	AGACTTTGTT	GAATGCAGTA	TATATATGCA	GGTATAAATG
236651	TTCAAGACA	ATGTAACATT	GGCAATAAAT	GTATTACAAT	GAATATTAGA
236701	ATGAAACTTG	CGCAGTGCAA	TAGTAAACAG	TATTAAATAA	AATCAGTAAT
236751	TGTTAAAAAT	AAGTTTATCT	GATGATCCAG	CATGTGTTAT	TCACAATTTT
236801	CAATTATATT	CCATTTATTC	TTTTTTAAGA	TAAAAAACT	CTGCTTTTAA
236851	GCGCGATATT	TTATTTTCCT	TCTTTGCCTT	TGTGTTTTAT	TATGTGTATT
236901	TAATAGGGTG	CGCTTTCATT	TTAAATATAT	GTTATGTATT	TATTTTCTAT
236951	AATTATTTTA	GTGCCTGAAG	GACCACCACA	AAACTGCGTA	ACAGGCAACA
237001	TCACAGGAAA	GTCCTTTTCA	ATTTTATGGG	ACCCACCAAC	TATAGTAACA
237051	GGGAAATTTA	GTTATAGAGT	TGAATTATAT	GGACCATCAG	GTAAGCCTTA
237101	ATTGGTTTTG	TGTTTGCCTT	TTGGAGTGAG	AATAATAAAA	TATGTTACCA
237151	ATATCAAAC	CTGTTTAAAA	GTATCAGACT	CTTTTAAAAA	GACTTTAAGA
237201	TTGAAGCAAA	CAATAGGAAA	GTCATAAGGA	AGGGGAGGTC	CTTTGATTTT
237251	TTAATTCAAA	ACCATAAATG	AGTATAAGAA	TGACAAAAC	ATTCATGTTC
237301	CACATTTTAT	GTGATGCATG	TGAAAACTA	GAGATAACTC	CTCAAGAAAA
237351	AAGTGTTTAG	GAAGATATAC	ATCTTCAAA	ATTTGAACAA	GAAGTCCTTG
237401	GCTTACATTC	ATGAAGAACA	ATGGACTTTG	ACTATATTAA	ATTAGATTTT
237451	TATTCACATG	TAGGAGCCTA	GTTTCTTAATC	ATTAGAAAGA	GCTCTCTAAA
237501	AATAACATGG	AAAATCTCTG	TATCTTCTGC	TCTATTTTGC	TGTGGACCTA
237551	AAACTGCTTT	AAAAAGAAAA	ACCTATTAAA	ATTTTGGGCG	AGCTTTATAA
237601	AGTGGCAAGT	TCTCCAACCT	TGTAAGCAAG	CAGGACCTGG	GCATCCACTT
237651	GCCAGAGATA	CTTTGAGAGG	ATCAAGTATT	ATATCATTAG	GATCAAGTAT
237701	TATATCATT	GAAGTGAATT	ATGTAAAGTC	TAAAAATCTC	TCCTGATTGA
237751	GAGCCTCTGA	TTCTATGAAA	TAAGTTTAAT	TCTAACCAATG	ATGAGATAAA

FIGURE 3000

237801 TAATAAAGCC ACATATTATC ATTTATTGG GGGCATCAAA AAAGATACAG
237851 AGTTCCAACCT CATTTTATTT TGCAATTCT GTGGTATGAA TCACTCATCA
237901 CCATCATGAG TAACCTTTAT CTTTCATCCC TAAGTAACTT ATGCTCCTAA
237951 AATTCTGAAA TACTTTTACT TCCTAAAAA AGATAATTCC CTCCACTCAC
238001 CCATCCGATA CACAGAAACA GACATGGATA CACAGCTACA TCTTTCTGT
238051 CTGACATTAT TGTTCATAC TTGGCTGAAG TACTCTTCA TTTGTAAGGC
238101 TGGCTGATAA ATCAAGTGAG AGGCATGTAG CAATAATTGC ATTTAGCAAC
238151 ATGGGAGTGA TCACATGCTT TCAGTATGGT GGAACATGTG GGGTAAATAC
238201 ATGATTGAAT TAGTTAAGA GTGAATGGGA GAAGATCATT GGAACAATGG
238251 GTGTAGAAAT TCTTTTGAGT TTAGCTGCAA AGCAAAGCAG TGAATAGAGA
238301 GTAAGGGTAG GGATAAGTGA AGTCAACAGG TCTCTTCAGT AAGAACATAT
238351 AAAGCATGTT TGTTTGCTGA TGGAAATGAG GAAAAAAGG AAAATGTTAA
238401 TGATATAAGA AAAACGAGAA TTACTGGAAA GGTGTCTGTG TGGGCAGAAG
238451 GTGAGATCTT TTGCTCAAAT GTAGCCATTG GTTTGAGATA AGAATACAGA
238501 TAATTTGTCC ATACTAACAG ATAATTTGTC CATAAGTGT TCTTATAGGT
238551 TGTAAAGCAG AGTATATGGG TGTAGATGCT GGTAATATA TAGTTGTGTT
238601 GGTGGGAGCC TGTGGCAAAT ATTTTCTAAC TGGTTTACCT TTTTCAGTGT
238651 AGTGGGAAGC AAGACTATTA GTTGGGAGTG AAGATAGGGC AGAAGGTATT
238701 AGAGGTCTGA GCAGAGAAGA GTAAGTGTA AATAATCTTC TAGAAGAGTA
238751 GAGTGATTGG ACCATTGACT ATGTAAGTTG AGTAAGATT CAGGCACCAT
238801 GTAGGGCTCA TTCAAGGTTT GGCTATGAAT AAAGTGACAT CAATTAATGG
238851 CTTTGTGCTG TAAATGAGCT GCCTTCAACA ACAGAAGGGC GAGGGAATTG
238901 GAGGCCCTGT TAAGGCAGTG ATTATAATTG AAACGTACAC TGAAGATGGG
238951 TAGAGTGGAA ATCAAGTGGT GAGGGGCCAA ATAAAAATAA AAAAAATAA
239001 AATAGGTGAT TAAATCAATG GATTGTTGAT TTCAGTGGAT TTAAAGAATT
239051 ATCAGTTTCAG AATTATAGAG GAAATGTAAA GGAAGTAAGC AAAAGTGGTT
239101 AGAAAAAGT TGCATGAAAT TGAGATTCTT AATGATACGG AGTAATGGT
239151 GATAGTAATG TCCAAGTTAT GATCTTGAGG GAGTGGCTGA AATTCTGAAA
239201 AACTAGATTA TTTAAGGAAA TATCTAAGTA ATTTAAGGAT TAAGTCTCAG
239251 GATATTAAAA TCAGCACAAA TTAAGATGGT AGCCTTGAAC CAAAGCTAGA
239301 CCATGAAAGT AAATGAGAGT AAATGACCCT CAGGTTAGTA GATTACGACA
239351 ACTGTGAGGG CTAGTGGATT TCACTGGTGA TACAGTATT AAAGCTGTGG
239401 GCTTTTATAA GGAGGGAGAG AGAATAGTAA ATAAAGTGA GCAATGAGGA
239451 GCAAGGACAA CACCTACCAC ACCTAAAGGC CTGGTTACTT GAGAGCTGTG
239501 GGGCAAAAC AGACTGCCAC CATTGCGGT GGCTGCAGG GAACAAAAC
239551 AGTGTCTTCA GGAAAGAGCC AGTTTGTAGT TAGAGCAAGA AGGTAAAGGA
239601 AACATTTAAA GCAAAGTCGA AGATTAAAG TATTGTGCTG ACAGACTAAG
239651 GAATTTTGT CAGAAGCTAA ACTAGAAAATA TTTTCTAAT ATATCCTCTT
239701 ATAGAAGATA ATGAAATTAT TTAGCATTTT TTTTTTTTTT TTTTTTTTTT
239751 TTTTGAGACG GAGTCTTGCT CTGTGCCCCA GGCTGGAGTG CAGTGGCGGG
239801 ATCTCGGCTC ACTGCAAGCT CCGCTCCCCG GGTTCACGCC ATCTCCTGTC
239851 CTGAGCCTCC CGAGTAGCTG GGACTACAGG CGCCCGCCAC TACGCCCGGC
239901 TAATTTTTTG TATTTTTAGT AGAGACGGGG TTTACCGGT TTAGCCGGGA
239951 TGTCTCGAT CTCTGACCT CGTGATCCGC CCGCTCGGC CTCCCAAAGT
240001 TATTTAGCAT TTAAATTGAA TAAATTGAG TATAAATCT GGTCACTTT
240051 TGAAGTATA AAATTTGATG CTTCCCTTTT CAATATGTCA AAAATAACCT
240101 GGTAATTCOA AAAGGCTTTA TGATTAAATA AAAGTCATT TAAGCACTGG
240151 AACATTTTCA TGTCTTTTCA TTTATTTTCA TTAAATTGAT ATCAGTGCAC
240201 TACTAAGCCA CATGTTTAAA ATATATGCAG TTTTGATATT ATAATAACAA
240251 ATTTTAGTGC ATAGGTTAAC ACTTGAATTG TTGTCTTTGG CTCTGTACTT
240301 AAATGTGAAC ATGATTGCAC GCTTGATAAA AAATAATCCA TAGCTATCTT
240351 CCCTCTTTTG CAGGTCGCAT TTTGGATAAC AGCACAAAAG ACCTCAAGTT
240401 TGCATTCACT AACCTAACAC CATTTACAAT GTATGATGTC TATATTGCGG
240451 CTGAAACCAG TGCAGGGACT GGGCCCAAGT CAAATATTTC AGTATTCACT
240501 CCACCAGATG GTAAGAACAT AGGGAATGAG TGAGATATTT TTGGTATGCT
240551 TATGAACCTC ATGAATTGGT AAAACATGAT ATTAGAAGCA ATTTGTTTTA
240601 CATTTACTTA AATCATGTTA TTTCTTATT AAATTACTAC CTAATTCATT
240651 CTGAACATGT GTTCTCCAGA ATGTTAAACT CATAGCATGC TTCATAATAA
240701 AAGGGACCCA AGATCAGGTA AGGTTAGGAA ATATCATATG TAGTATTGGC
240751 CTGTTAGAGA TTCACAATAA AATTTAGCAA AACCTCAAGA AGTCATAAGG
240801 TAAACAAACA CATTTAGTAT GGTTTAACTA CATTTTAAAT TGTGGAATCT
240851 ATTTTCTCTC ACAGAACTAG TATTTAGAAG AATTCCTATA CTCCCAATTC
240901 TTTCAACAAA ATATGTTTAT AATCAAAACG GGATTCTAAG CAAGTGAAGA
240951 TTCTGAGTGG TAGATTGATA TAGATTACC AGCATTTACT GAAATTATGA
241001 AAACATTATT TTTCTCAAG AAACCTCCTT ATAAGTATT ATTAAACATC
241051 ATTGTTTTAG GTGAACATA CTTTAAAAAG AATGTTTCCA TACTATTTCA
241101 CAACATATCT TTCAGGCCCA CACTGAACCT GCTAAATGTC TTAATTTCTA
241151 TTTAGGGATT GTAATTATGG AAAAAATAA CAGTAAATTC TTATAACACA
241201 TTAACACTTG GAAAAGTTTC CAGACTTTGT TTGTGTGGAA GCTAACATAC
241251 AGTAACCTAT AAATGAAATG TAGACATGTA TACACACACA CACACTCACA
241301 CACACGCGCA CACACACACA CACACACACA CACAGGTCAT ACATTCATCG

FIGURE 3PPP

241351 TTCAAGCGTT TGACCATTAG AGGGCAGTAA CTATTAGGAA ATTTTGTACT
241401 TCTACCCTTT AAAGAAACAA CCATTGATAT TTTTGTGAAA GAACATAAAA
241451 GTTAGCGTTT ATCTATTTCA GATGAAAATC CTGACATATA TATAGTTTTA
241501 GAATACATAT AAGAAAGTTG TACATACTCA TAAGGAAAAT GTTCTTTTTT
241551 TGTATTAATA TTTTACCTTT GTGTTTCTAT CAGAAGAATC CTAGCATTGT
241601 GTAGCTTCTT CCTTAAATCT TAAGTTTTC TCCATCTCCA CCTAAAACT
241651 GCTCTTAAGC ATGTCCTAGG AAAGTAGACA GATTTATGGA CACTATCAAA
241701 TAAAGCAGAG CCCTTGATTT TGGTCTTAAT AGAGTTTCT CAACCAACTC
241751 AATGTACCTA TTGATTTCTA TTCTTGTTAT ACAATTAAAT ACATCCTGAA
241801 CTATTGTCTT CTTTCAAGAC CAGCTGATTT TGGTGTCTCC AAATAGAATC
241851 CACAACTCAA TAAACATATT TTTATTGTCA TCATTCTTGG ACTACATCAT
241901 GTGACAAAAA TAGGGAAATA GATAATGCAT ATGCTGTGTA CAATGTCATG
241951 TTATTGTCTT TGGATTATTT TAAAATTTAC TTGCCTTAAT TTCTACATTT
242001 TTTATCCACA AAAGAAGTAG AATCTTCAGG TCATAGTTCA GTATATTTCA
242051 CAAGCGCTAT TTTTCACACC AAATCATTTT AAGTAGATGA CTCCATTGTC
242101 CCTCTATAAA AAGCAATTTG TCCTGTGTTT CATCTGTGTA TCTTCCTGAG
242151 TCACTCCTCC TATAGATCAC ACCCTGGTGG GTCTTAGAGG GGCCTCCTGG
242201 CAACTGGTGG GTTCCACCAA AGGCAGGGTT GGCATGGTTC TTATATCCTC
242251 ATGTGAGCCT ATAGCAGCCT TCATCCATGG AGTTCTCTTG GGATAGTTCA GCCACAGGAG
242301 CTGCCTCAAT GGAATACTCT GGCAATGCA GTAAATGTAG CTTTCTACTT
242351 CTGACACCAC TAATTAATCC TGGTTTCAGT ATTTAAACT TTGAAATAAA
242401 TGGATCTTTA AACTATATGA AAACAATGTG ATAACCTCAT AGAATCATCT
242451 TTCAATTTAA AATGATTTT TTAATTTTAT ATTATCCTTT TCATTAATAC
242501 AACAGGGTTT TTAGTATTCT AATTAAAGTT ACTTAATTTA ATTTCTTCTC
242551 CATATTTTAA ACCAGTCTAT CATCTATTTA AAAATAAATT AGGACTAGTT
242601 TGCTTCTTTT AAATTACCTT TTTAAACAAT TGGTGTCTTT ATAAATCTCC
242651 AGATACTCAT AGAAAAATGT TGCAATGACC TCTTATAGAG AATGTTATGT
242701 GCTATTACAT TACAGTGGAG TTGATTTTAT TACCCCTGGG GATGTTACGG
242751 TCCATAGTCT ACTTTGAAAG AAAATCAGCA TCCTATTATT TTAGCAGTTC
242801 TCTTATGTAT TTCCTAAGCC CTCTATATGT CTCTTAATAT TTTGATGAGT
242851 AGATTCTCTG ATAGGCATGA AAATAAATGA TTTTGGAATA AAAAGATAAT
242901 AATCTCCAAA GCTATAAAAT GTCATAGAGT TGCCTATTCC AAAATCAGAT
242951 AATGCTGATG AATATAACAT AGGCAACAGC ATCTCTCTAA ATTGTGTGAG
243001 GGGTAAAAAA AATAAGCAGA CTGTGATGCT TCAATATTGT CTAACAACCT
243051 TTCTGTCTAG GTAGTTTAGC ATGACCATTT CTTAAAGCA GACAAATTTT
243101 TGAGATTCTT GTTTACTCCC TCTTAAACAG ACTATGGCAG TGAAGACGTT
243151 TGTCTCTCAGT GATTTAAACT TGTTACTTTC TGCAAAATAGT AGTAAATCTT
243201 TTGCAGGAAA ATAACGTAGA GCCTGCCAAC TTTGTGTTTT CAGGATTGTC
243251 AATGGCTTTA ATTTTACTA CTTGTTTTTC AAAATATACT TCTAAAGAAA
243301 CTTTAATTTG CTAGATAATG GCAAAAATGA TCTTAATGTA TTTTCTTTTA
243351 CCTCAATGCT GTTTGTCTCT ATTTTCAATTC TTCTCATAGT TTTTCAATTTG
243401 AACACTTCAA ATCATTGGA ATATATTTTA ATAAATCATA TGCTATTGTG
243451 TTTCTAATGC ATAGTAAAAA TTTATAAATA TATTAACCTG AGAATAATTC
243501 TTAGGTAGTC CATGTATATA ACACCTTCAA AATTAAATTT ATTTTGCCAT
243551 TATCTAGAAA ATTCATCATC GAGCAGCATT AATTTTGAAG TTGGAGAAAA
243601 TGGCATTGGG GTAAAGAAAA TGTGAGATTT TTTTGGCCAA ATGCTCTAAT
243651 TATTTCTCAT TTATTGTAA AATTGTGAAA TGTATCGACT TGAGAATGAC
243701 TCTTAGGTAT TTCCTGTGGA CATCACCTTC AAAACTGATG CTGAACCATG
243751 AATAATTGAG TTGTGTGTTT GATTTCTTTT AGGTAATTTT GTATCAATAT
243801 TAAAGTCTTC TCTAGTTTCC CCATAAGAAT TTGTGGTCTA ACAGATCAAG
243851 TATCTTTTAA AAGACAAGAT ACAATGCTGT TGACTCCATT TCTTTTATCC
243901 CCTAAGCTTA AATAGGAAAA AAAAGATAAG TTTATAGTCA TTATTTTAT
243951 GCAAGTTTGA GGTACATTTT AAGGTAATAT AGAACCATT AATCTTTACC
244001 TGGATTGTAA TTTTGGCAT TAAGTATCAT GGGGCAACAC TTACTAAGAA
244051 AGTAAGTATT GAATATATAG AATATATAGA AATATATATG CTAATTAATA
244101 GATAAAAAAT AGTGTCTGCT ACTACTCTTG GTTCTACTAG CAAAATAAGA
244151 GACAGTAAAA TATATATAGT TTTCTGCTGT CCTGCATAAT ATTTGATATC
244201 TAACACATTA GTGTGTTGCG TTGACTTGAA CTGATCATTT CACTTATCTT
244251 TCAATAGGCA GGGTTTAGTT GCCTGATTAA TATGATCAAT GTAGTCATTA
244301 GCTGTTTTTT TTTTTCAGT TGAGATTCTA CATCAGTTCA AAATAAATGG
244351 AAAAAGTGCC AGATCTCCTC TGACTTAAGT TATGCAATAC TGGCTATTGT
244401 TTTGTCTGCA TAAAAACTGC AAAATAAAT TTTAAAAAGA GATGGAATAG
244451 GAGCTTTGCT ATTTAAATAG CCATGTTATT TTACACCACA CAATTAATTTG
244501 GAAAGTTTCT CCACCTTGA AAAATGCATA TTGGTAAAT GCATATTGGT
244551 AAATATGATG ATGCAACAT GAGCTCTAGG TACAATATAT TTTAGTGAAA
244601 TAAACTCAT ACTAGAGGTG ACCTGTGCAA AGGGCTTTAT CTGTCTTATT
244651 CCTTCTCTG TCCTCAAGTG CCTAGAACAG TGATCATATG ATCAATGCTC
244701 AGTGTGTGTA ATGATGAATG AATGGCCCAA CGATTGTCAC AATATCTAGG
244751 GAGTCTTTAC CGGTTACTTC ATGAAGACAA AGGAAAAAAC TCAATCTATT
244801 GGATGAAAAA TTTGTATAGT CATAGTTACT ATAAAGCCAA CTTAAGCATA
244851 ATTATATTTG CTCATTATAA ATAACATATA TGGGAGTTAT AAAATTATTT

FIGURE 3QQQ

244901	TTCAATTCCT	TTCTGTTGTC	TTAAAAAGAA	AGGGGGTCAT	TTTTCCTTTG
244951	TTCCCTTTTA	AGACTATATG	CCTGTCCTCT	AACTAGAATT	TGCTAAACCT
245001	GTACCGCTGC	CAGAGAGTTT	AGGGAAATTA	ACTGAAAGTG	TAACAACAAT
245051	CTGATAATAA	GGGATCATAA	TTTTATGCCA	TTTTCTCTTT	CTTAAAAGTT
245101	TTAGAAATTT	GAGAAATTTT	CTTGAACCTC	TTGTTCCCTTA	TAGTAACCTG
245151	TATAGTAATA	GGAAAGCTAT	AATGACACCC	ATTTTATAGA	TAAGGAAAGT
245201	ATAGGTTTGA	GGGATGCATG	AGCTATTTCAT	AATCACAAGT	TGAACTGTAA
245251	ATAAAAATGA	TCAAAAGCCC	AGGGGATATT	TGTTTTTTGC	CCGTTACTCC
245301	TGTGAAACTG	GGAAGTTCCC	TAGATGTCAC	TCTTAGTGAC	TTTACAACCTA
245351	GAACTTGCTT	TAAGTTCTTG	GTACTTTATT	TTAAACCAAT	TGTTAGTTTG
245401	TTCTTATTTT	TATTTACTAT	TGCAATGAGT	GAGGGCACCT	GAAATTGAA
245451	AATAACATGA	TTATTTTAA	AATATCAGAA	AAAAATCAAT	CAACTCTTCA
245501	AACAATTTCA	TGTAATAAAT	TAAAACGCAG	TCTAATTTAA	CTTACCAACT
245551	ATATTTAATT	GCATTCAGAG	TCTTCTGGAT	ATTAATTTTC	AATCTGTTGT
245601	TATAATTTT	ATGAAACCAT	CAAGATTTCA	ACTGGCATTA	ATTATCACCA
245651	AATAGGCAGA	TTCTCAAGAA	AATTATTTTT	ATTAATTAAT	TTGTTTCAAA
245701	CAAATGTTAT	GACTTTTATT	TTGAAAAAT	ATTCTGTTAT	TCTGCTCCTT
245751	ACTTACATT	CGAGAACAAT	GTTTAGAAAT	TTAGGCAAGA	TGGCCGAATA
245801	GGAACAGCTC	CAGTCTACAG	CTCCAGCGT	GAACGACGCA	GAAGACGGGT
245851	GATTTCTGCA	TTTCCATCTG	AGGTACCGGG	TTCATCTCAC	TAGGGCCAGA
245901	CAGTGGGCGC	AGGTCAGTGG	GTGTGCGCAC	CGTGTGCGAG	CCGAAGCAGG
245951	GCGAGGCATT	GCCTCACTCG	GGAAGCGCAA	GGGGTCAGGG	AGTTCCTTT
246001	CCCCTTGTC	AAGAAAGGG	TGATGGACGG	CACCTGGA	ATCGGGTCAC
246051	TCCGACCCGA	ATACTGCGCT	TTTCTGACGG	GCTTAAAAA	CGGCGCACCA
246101	CGAGATTATA	TCCCACACCT	GGCTCAGAGG	GTCCTACGCC	CACGGAGTCT
246151	CGCTGATTGC	TAGTACAGCA	GTCTGAGATC	AAACTGCAAG	GCGGCAGCGA
246201	AGCTGGGTGA	GGGGCGCCCG	CCATTGCCCA	GGCTTGCTTA	GGTAAACAAA
246251	GCAGCCTGGA	AGCTCCAAC	GGGTGGAGCC	CACAACAGCT	ACAAGGAGGC
246301	CTGCTTGCTC	TGTAGNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
246951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
247951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN

FIGURE 3RRR

248451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
248951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
249951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
250951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
251451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNCAT
251501	GTATACATAT	GTAACATAACC	TGCACAATGT	GCACATGTAC	CCTAAAACCT
251551	AAAGTATAAT	AATAAAAGGA	AAAAAAGAAA	TTTAGTATTA	AATATCCATG
251601	TATTTAAAGA	CATTTAATTT	AACAAAAATT	TATTATACTT	TCAGTCTCGG
251651	GGTACATGTG	CAGAACGTAT	AGGTTTGTTA	CATAGGTATA	CATGTGTCAT
251701	GGTGGTTTAC	TGCACCCATC	AAAGTGTTCAT	CTACATTAGG	TACTTCTCCT
251751	AATGCTATCC	CTCCCCTAGC	CCCCACCCA	CCGACAGGCC	CCGGTGATG
251801	ATGTTCTCT	CCCTGTGTCC	ATGTGTTCTC	ATTGTTTCAGC	TCCCTCTTAT
251851	GAGTGTGAAC	ATGCGGTGTT	TGGTTTTTTG	TCCTTGATG	AGTTTGCTGA
251901	GAATGATGGT	TTCCAGCTTT	ATCCATGTCC	CTGCAAAGGA	CATGACCTCA
251951	TCCTTTTTTT	AAGACTTATT	TAATTTTAA	CAAAATAAAT	TGTTTTTGTC

FIGURE 3SSS

252001 TATTTTCTTT CTTTCTTGTT TTTTGTGTTT TTGTTTGTTF GTTTGTTTGT
 252051 TTTTGTGATGG AGTCTCGCTC TTTCTTCCAG GCTGGAGTGC AGTGGTGTA
 252101 TCTCCACTCA CTGTAACTCT CGCCTCTTGG GTTCAAGCAA TTCTCCTGCC
 252151 TCAGCCTCCT GAGTAGCTGG GATTACAGGC ACGCACCACC ATGCCTGGCT
 252201 AATTTTGTGA TTTTCTAGTA GAGATGGGGT TTCACCATGT TGGTCAGGCT
 252251 GGTCTCGAAC TCCTTACCTC AGGTGATTGG CCTCCCTTGG CCTCCCAAAG
 252301 TGCTGGGATT ACAGCCATGA GCCACCGCAC CTAGCCTAGT CTGTTTTCTA
 252351 ATAGAATTGT TTATATATCT TAAATTGTGA ACTAAGAATT TAGACACTTT
 252401 TTTCACTTGA AAAAATATTT TTAAATTCCC CCTTTTTCTT TTCTTTCTT
 252451 TCTTTCTTTC TTAGTTCCAG GGGCAGTGTG TGATTTACAA CTTGCAGAGG
 252501 TAGAATCCAC GCAAGTAAGA ATTACTTGGA AGAAACCACG ACAACCAAAT
 252551 GGAATTATTA ACCAATACCG AGTGAAAGTG CTAGTTCCAG AGACAGGAAT
 252601 AATTTTGGAA AATACCTTGC TCACTGGAAA TAATGAGGTA TTGCATTTT
 252651 ATTTCACTTA TTGGTGAACC CTTTCTGCTT GGTCTGGGCT CTGATAGCTT
 252701 GGAAGATTG ACAGCACCCA CACATGTAAT ATTTGACCAG TTACTAGTAC
 252751 AAAGTAAAGT AAATTGGGG CATGTTGATA ATCTAGCTAG ATCATATTTT
 252801 ATTTTAGGTT ATATATATTT AGTTAAGTGC TATTATTCCT TTTCATCATA
 252851 TGAAAAATGT TAATTGTGCA ATTAAACAGG ACTAAAGGTA TTTTCATAAG
 252901 TTAATATTTT TTTTCTAAAT TAGTTAATGA ATTGTTGCGA AACTCTGTG
 252951 ATGATTTAAG TGCTCCTTCA AAGGCTGTGC TTGCAATTTG GAACAGTTGC
 253001 CAGTGAAAGG CACAGTAACT TTAGTAGCTG TTGTTGACAA ATGATTCTGT
 253051 TCTATTTGGT CTTGGGAAGC TAAATTTCTC AAAGCTGCCT CTTTTTTTTT
 253101 TTCAAAGATT TCTTGATTAA GAGTCACATT ACTAAATAAA AGAAATTTAA
 253151 GTCGTTTCAT AGATTTTAAA TAAGAGGACC AGGATCTTTA GGCAATGTGT
 253201 TTGCTTCTAT TCACACTGGA AGTCTTATTT TTTTCTTTT GTTCTGTGTA
 253251 GGAAGTACAG GCAACACTGA TTTTCTTTT CACTGTCTTT GTTCACCTCA
 253301 CTTCACTCAAC TGTTCACTG TGAGACTCTT TCAGCCTCCA GGCTAGTCAT
 253351 GTCCAGATAC TGGCTGCTCC CCGGGGCATT CAAAGAATAA ACTTCCTTAG
 253401 GACCAGTGCA GCAATCACTG GGCCTTAAAG ACAAAACAGA TAGTTATTCA
 253451 GCACCTGGCG TCTGCTGTGT TGTTTCAGAA TTGCTGCTGC TTCTACCTGT
 253501 GCTGTTATTT TCCCCCACAC ATGCTTTCAT TCTATTTCTA GTCCCAGCCT
 253551 TCCTCTATTT CTGGCACTTA CCTGTATGTG ACAGTTGACC TCACCATGTG
 253601 CTCAATGCAT TCTGGCCACC CAGGACTTAT CACTCCAAGT TGCTCACCAT
 253651 CTTCAACCCA GGGTTAAATT TTAATCCTAT GTTGATTCCCT TTCCTCTGTG
 253701 CAAAAGATGT TGAATTATGC TTTCTGTGAT ACTCTGGTTG ACAACTCAGG
 253751 CAAAGGGCAA AAGCTTAACC CTTTGCTCCT GCTGAGAAGG TCTTAAATTA
 253801 GATACTGAGC TTTCTAGTA CTAGATGACA GGTTTCCAC TTCTGCTAAT
 253851 GACATCTGTT GAATGGGTGG CCACACCTGT TTTTCCATGA AGCTAAGAGG
 253901 TTCTAGAAAG GCTTTTTTTT TGTGATTCTG TCTCTATCTG GTCTGCAATT
 253951 CTCGTCTCAT AGTAGAGAGC TCATGAGCTT TGGAGACGTA CAAATTTGGA
 254001 TTTAAATTAT GATTTTGTCT CTCACCTGTG TATATAGCAA GTGGTTAAGA
 254051 CTGTAAACCA GGTTTAAACT CTAGTTCTGC CATTTACTAAC TGTTTAAACC
 254101 TGGAAAAGTT GGCCTGAGCT CTCTGAACAT CAGTTTCTTC TTCTCTAAGA
 254151 TAGTGATTAT AAGTCCCTAT AACAAAGGGT TAATAATGAG AATTTAATGG
 254201 GTTCATGTGT GTAAAGAGCT TAGAACTGTA CCTGGCATAT AGTAAGTGCT
 254251 GTGCTAAATA ATTGTGACCT ATTGTGATCA TTAATCTTGG CATAGGATCA
 254301 TCCACCTTAG TTGCTACCCA ATATTACTTC CCTTATACTC TCTCAATGAA
 254351 AGGAGACATT ATGCTT
 (SEQ ID NO: 3)

FEATURES:

Exon: 1985-2162
 Intron: 2163-2879
 Exon: 2880-3025
 Intron: 3026-7759
 Exon: 7760-7928
 Intron: 7929-9538
 Exon: 9539-9829
 Intron: 9830-10072
 Exon: 10073-10348
 Intron: 10349-10714
 Exon: 10715-10866
 Intron: 10867-14541
 Exon: 14542-14683
 Intron: 14684-17531
 Exon: 17532-17801
 Intron: 17802-25894
 Exon: 25895-25913
 Intron: 25914-32704
 Exon: 32705-32751
 Intron: 32752-38464

FIGURE 3TTT

Exon: 38465-38537
 Intron: 38538-50608
 Exon: 50609-50647
 Intron: 50648-52767
 Exon: 52768-52863
 Intron: 52864-65210
 Exon: 65211-65257
 Intron: 65258-71845
 Exon: 71846-71967
 Intron: 71968-74327
 Exon: 74328-74331
 Intron: 74332-77230
 Exon: 77231-77413
 Intron: 77414-80379
 Exon: 80380-80624
 Intron: 80625-82987
 Exon: 82988-83054
 Intron: 83055-86199
 Exon: 86200-86358
 Intron: 86359-86969
 Exon: 86970-87192
 Intron: 87193-88876
 Exon: 88877-88950
 Intron: 88951-98823
 Exon: 98824-98923
 Intron: 98924-101576
 Exon: 101577-101705
 Intron: 101706-116163
 Exon: 116164-116245
 Intron: 116246-119319
 Exon: 119320-119410
 Intron: 119411-120716
 Exon: 120717-120722
 Intron: 120723-124462
 Exon: 124463-124539
 Intron: 124540-135466
 Exon: 135467-135601
 Intron: 135602-135798
 Exon: 135799-135924
 Intron: 135925-136803
 Exon: 136804-136953
 Intron: 136954-139371
 Exon: 139372-139507
 Intron: 139508-145261
 Exon: 145262-145385
 Intron: 145386-145645
 Exon: 145646-145679
 Intron: 145680-228018
 Exon: 228019-228019
 Intron: 228020-228018
 Exon: 228019-228019

SNPs:

DNA Position	Major	Minor	Domain	Protein Position	Major	Minor
36	-	T	Beyond ORF(5')			
1414	A	C G	Beyond ORF(5')			
1743	T	C	Beyond ORF(5')			
2766	T	A	Intron			
3155	C	T	Intron			
5816	G	A	Intron			
6074	C	T	Intron			
9550	T	C	Exon	169	S	P
9644	A	G	Exon	200	E	G
16630	T	G	Intron			
17957	G	A	Intron			
18299	T	G	Intron			
23521	C	G	Intron			

FIGURE 3UUU

28463	C	A	Intron			
35221	C	T	Intron			
41813	A	G	Intron			
41957	C	T	Intron			
42599	G	T	Intron			
47819	G	A	Intron			
51990	-	A	Intron			
51992	-	T A	Intron			
52788	T	A	Exon	608	V	E
59029	A	C	Intron			
60776	C	T	Intron			
61193	A	G	Intron			
62994	C	T	Intron			
63244	T	C	Intron			
65053	A	T	Intron			
68460	C	A	Intron			
69326	A	G	Intron			
73039	C	G	Intron			
73084	A	G	Intron			
75205	G	A	Intron			
75491	A	C	Intron			
75962	A	T	Intron			
82853	T	A	Intron			
82930	T	C	Intron			
88505	T	C	Intron			
95970	-	A C	Intron			
96524	C	T	Intron			
100868	G	A	Intron			
102246	A	G	Intron			
107335	T	C	Intron			
107921	C	T	Intron			
110413	T	G	Intron			
111600	A	G	Intron			
114518	G	C	Intron			
114614	C	T	Intron			
124669	G	A	Intron			
125409	G	A	Intron			
129447	C	A	Intron			
135139	A	G	Intron			
148111	A	T	Intron			
200822	T	G	Intron			
207967	A	G	Intron			
213624	A	C	Intron			
215753	A	G	Intron			
216081	T	A	Intron			
218692	G	T	Intron			
218705	T	G	Intron			
218754	G	C	Intron			
218852	C	T	Intron			
219261	T	C	Intron			
219359	-	T	Intron			
219362	-	A T	Intron			
220577	G	T	Intron			
220995	C	T	Intron			
225263	C	T	Intron			
226704	G	A	Intron			
228390	T	A	Beyond ORF (3')			
228472	G	T	Beyond ORF (3')			
229014	A	C	Beyond ORF (3')			
229585	C	T	Beyond ORF (3')			
237335	T	G	Beyond ORF (3')			
237771	T	G	Beyond ORF (3')			
239304	T	C	Beyond ORF (3')			
239767	C	T	Beyond ORF (3')			

Context:

DNA
Position

FIGURE 3VVV

36 CATTATCTATGGAACATAATCTGAGGCTTTTTTTT
 [-, T]
 ACAGTTGGTAGATACTTATGTACAAGATTTTGTCTGTGAAAAATCAGGGCAAGAAGGTAGTG
 ATGCAAGGTAGCAGATAACATTGAAATACATTTTGGAAATAATTTTAAAATTGATGTA
 ATGCAATTAGATTACTTGAGCTAATAGCATAGCTTATTTTATTTTATTTATTTTATTT
 ATTTATTTTTTTGAGACACAGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTTGCCGATA
 TTGGCTCACTTCAGCCTCCGCCTCCTGAGCTCAAGCAATCTCTGTCCTCAGCCTCCTGA

1414 TCTTTAATAACTAATTTTATTATTCCTAAAAATAAAATAAATGCACATTTTTTCA
 GCATCACTATACACATGTTTCAATTTTTGGTTTATAGATATTAATCTATACCCAGTTCAAAC
 TGTGAAACTGAACTAACATGACTGAAATAAAATAGTGTTATATTTGTCTTTAGACTC
 TTTTTCCCTTCCTGAGATTTTGATATGTATTTGGAGAGTTTGAGTCAATATTTATTTG
 ATTTGTTTTCTTTCTGGAGTGATATGTAAATACTTTAAAGATTTTGATTGAGTGAGAG
 [A, C, G]
 TGTGAGCTATATTTCTTCTTCTCTGATATACATACATTTGTTTCCAATCTAATTTT
 TATTAATAACTATAGGAGAGCCACAGCCTTGTTATTTTACATATCACTATTTAGATAT
 TTGTTATTTATTTATTTGTGTTGGCCTGAAGTAAATGTTACTTTTGTACGATATTTGAAG
 GATAGATTTATTTATAAATTAATAGTTTAAATAAGATTTTGCCAGCATTTGAAATGAAC
 AAATGTTTGGACAATGAAAACATCAGTATGAAAGGGAATCTGTAATTACTTTAGTACAT

1743 TGATATACATACATTTGTTTCCAATCTAATTTCTATTAAATAACTATAGGAGAGCCACAG
 CCTTGTATTTTACATATCACTATTTAGATATTTGTTATTTATTTATTTGTTTGGCCTG
 AAGTAAATGTTTACTTTTGTACGATATTTGAAGGATAGATTTATTTTATAAATTAATAGTT
 TAAATAAGATTTTGCCAGCATTTGAAATGAACAAATGTTTGGACAATGAAAACATCAGTA
 TGAAGGGAATACTGTAATTACTTTAGTACATAGTATTCCTTAATATCCATTAAATTTGG
 [T, C]
 CCAAGCAAACCTCTAATTATGAACATCATATTAACATTTGATCTAATTACTGAATATAATT
 AAAAGCAAATAAGTTAATTTACTAAAGAATTCTGAAATTTACTATTTTCACTATTTTCAAG
 GATAACCAACATCTTTTTCTATTAATCTAGAATAAATTTCCATATTAATGTTGTTTA
 CTTTTAATGTTAGTGTGCTCAAAAAGTATTGTTAACTTTTAAATTCATTTCTACAGATA
 ATATTCCTTTTATCTCAGGAATAGATCATCATTAATAACTATTAATGTCACTGAAACATC

2766 ATTTTATGTGTTTTATTAACGAAACAACATAAAATGCATGAATCATTGTCTATGACTTT
 TATTATTCATATAAAAAATCTAAGTTATATTAGAATTCAAATTATGTATTTTGTATTG
 GAAACCTGTTTATAATATTTGTTCTCATATCCAGAGCAGTGACAGGTTTGAACGGAGAT
 AGTATTTTATGGGTAAGAAATCTATCTGTCTTCAGCTTGAATATGCCTATAATAAAGTAT
 TAGAGGGGTGACCCAATGTGTTTTATGGATTTCAATTTCTGACATTTCTAATTCAAGCTTT
 [T, A]
 TTGAAAAACATTTTTTATCACTTTAATTTATAAACTGTAGGTAATAATTCAGGCCATTTCA
 GACATTACTTGTAAACACAAATACAGTAATTTGTTCAATTATTTGTTTATAGCACCAAG
 CGATCCTCCCAAAGATGTTTATTATGCAAAACCTCAGTTCTTCATCAATAATCTTTCTG
 GACACCTCCTTCAAAACCTAATGGGATTATACAATATTACTCTGTTTATTACAGAAATAC
 TTCAGGTACTTTTATGCAAGTAAGAAGTGAATTTTCTTCTAGTTCTTTATTAACATCCTT

3155 ATTTGTTCAATTATTTGTTTTATAGCACCAAGCGATCCTCCCAAAGATGTTTTATGCA
 AACCTCAGTTCTTCATCAATAATCTTTTTCTGGACACCTCCTTCAAAACCTAATGGGATT
 ATACAATATTACTCTGTTTTATTACAGAAATACTTCAGGTACTTTTATGCAGGTAAGAACT
 GAATTTTCTTCTAGTTCTTTATTAACATCCTTAAGTTTTTATTAATAATACAGACTTGCA
 CAGTAAAGAAATGTTTACCTTACATTGATAATTAGGCACAGATGTATTTTATAAACT
 [C, T]
 CCATTGACATAGAAAAATGCGGTGTAGAAATGTCAGATACATTTAATCTCTTTACAGA
 CACACACACACACATACAACTTCTATATAAGCTTCACATGTATTAATAATAGTGAATC
 TGCCACCTACTGAAATTTCTGTTTATAAAGATGGCCCTCAATTACACTTCTCCAATAAG
 TGTTCTCTAAAGTGCTGATGGTATCATTTATCCTCAAAGTTATTTATTAGCTAAATTTT
 TTTCAATTGTTTGTATATGATATAAATAGTTCTAGTGTGATGTTGTTTCTTTTCTTT

5816 CTCAATACATATTTTAAATTGAAAGATTTAAAAAATATTATAGTAGACCAACATCACTTTT
 AGTACATAGTCATAATTTTGGAGCCCTTGAGTATGTAGCAAAGCCATCTTTCTTTTCT
 TATCTTGGAGAAATTAACCTCTTGGCTACTACTTGGCAATCCATATTGTTCTTCTTCTCAG
 TTGTTGCACATTGTATTTTGTACAGCATATTAACCTTTCTACTTTTAAAGTTTACCAC
 TTATGTTTCTTCTAGTGTGCTGGCATAATGTCTTCTATTTTAAAAAGTGTAAATGGGCC
 [G, A]
 GGTGTGGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCTGAAGCAGGTGGATCACG
 AGGTGAGGATCGAGACCATCTGGCTAACAAAGGTGAAACCTGTCTCTACTAAAAATA
 CAAAAAATTAGCCGGGCATGGTGGCAGGCTCCTGTAGTCCCAGGTACTCAGGAGGCTGAG
 GCAGGAGAAATGGTGTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCGTGCCACTG
 CCTCTAGCCTGGGCAACAGAGTGAGACTCTGTTTTAAAGAAAAAAAGTGTAAATGA

6074 CCTGGCATAATGTCTTCTATTTTAAAAAGTGTAAATGGGCGGGTGTGGTGGCTCACGC
 CTGTAATCCCGCACTTTGGGAGGCTGAAGCAGGTGGATCACGAGGTGAGGATCGAGA
 CCATCCTGGCTAACAAAGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGC

FIGURE 3WWW

ATGGTGGCAGGCTCCTGTAGTCCCAGGTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGA
 ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCCCTCTAGCCTGGGCAA
 [C, T]
 AGAGTGAGACTCTGTTTTAAAGAAAAAAGTGTAAATGAATATTAGTTGGTTGGTCA
 AATTTGAAAAAGTTTTACTAAATACCTTCTGACTATATTATATAAACAAAAGAATAAGC
 CTTACTTAGATAAATTTGTGCCAAAAGACATTTTGTTTTGCAAAAATAACAGCTGAATA
 AAATAATCATCTGGATAATTGATTTAATGTTACAAATTTGTTACATGCCTATGCACATTA
 AGTCACACAGTCAGCAGGAATGACTTCTGGGTGATTCAGATAATTGTTATGTATTAGCC

9550 CACACGCACACACACAATCTCCACATAGTAGGAAAGAAGAGTCAAGAGAATATTATAG
 AAACAATTTCCCATACATATTAAAGATGACAGAGTTTATTTGAATGATTTTAAATAAT
 TATTTAGAAGATATTTTATAATAGGTGAATGTTTGCCACATCTGCATTTAAATAATTTAA
 GAGCTGATGATGAATAGTTGCCATTTCAACAATTATACTAGTTTGTGAATTTAGATTCT
 TGTTTAGGGTAACTGTTGATTTTGTATTTTGCCCATTAACCTATCATAGTACCTGAAGGG
 [T, C]
 TTGTTGGAAACCTGACTTACGAATCCATTTCTGCACTGCAATAAATGTAAGCTGGGTCC
 CACCGGCTCAACCAAACGGTCTAGTCTTCTACTATGTTTCACTGATCTTACAGCAGACTC
 CTCGCCATGTGAGACCACCTCTGTTACATATGAGAGAAGCATATATTTTGATAATCTGG
 AAAATACACTGATTATATATTAAATAATTACTCCATCAACAGAAAAGGGATTCTCTGATA
 CCTATACTGCCCAGCTATACATCAAGACTGAAGAAGATGGTAGGCTAGACCCTTTTATTG

9644 TTATTTTGAATGATTTTAAATAAATTTTGAAGATATTTTATAATAGGTGAATGTTT
 GCCACATCTGCATTTAAATAAATTAAGAGCTGATGATGAATAGTTGCCATTTCAACAAT
 TATACTCAGTTTGTGAATTTAGATTCTGTTTAGGGTAACTGTTGATTTTGTATTTTGCC
 CATTACCTATCATAGTACCTGAAGGGTTGTTGGAAACCTGACTTACGAATCCATTTCTGT
 CAACTGCAATAAATGTAAGCTGGGTCCCACCGGCTCAACCAAACGGTCTAGTCTTCTACT
 [A, G]
 TGTTCCTGATCTTACAGCAGACTCCTCGCCATGTGAGACCACCTCTGTTACATATGA
 GAGAAGCATATATTTGATAATCTGGAAAAATACACTGATTATATATAAAAAATTACTCC
 ATCAACAGAAAAGGGATTCTCTGATACCTATACTGCCAGCTATACATCAAGACTGAAGA
 AGATGGTAGGCTAGACCCTTTTATTGCTGTTAAGCAGATTGTTGTTCTTTTCATTTACA
 TTGCTTTCTGATAGGAAATAGTCTTCAATTATATTGATTCTGTTGATCTCAAGTAATTA

16630 ATTTTATAAAAAATGTTCTTATATGATTCTGAAAAACAAGGAAGTGAATAGTTAATAGCATT
 TAATTGCCAGATCCCTTGATCAGCCAGAAATTATCTTTAAAAAATTTTAAATGCCACAT
 ATTCCCTAAATATCTCTTTAGTACTGGTGTCTTTATCTTACAGAGGAAGAAAAGTTTA
 TAACAGCTCAGTTTACAGCCAGGTAGAGCGGTGTAGGCAGATCAGGGATCACCTGAGTAT
 TCTTTAAAGCACTATGTTTTGCATAATGGCAGCAAGTTATTTCTTTCAATTTTCATTGT
 [T, G]
 TGTAAATCCCAAATGACTGTGTCCCAATTTTCTTCTACCATATCTTTACTGTGACC
 AGAAAAGTTATCTACTAATGCCACCATTAGGGGACATTGGCTAATTGGACATTTCTGTG
 GGAAGTAACCAAGTTTCTCTAATGTGCAGTCACTTTGGTGGCTAGGATATTGTTCTTTGA
 CCAGGCTTACCAGATATAGAGGACCTCTGAGAAGCTGGGTAGTTTCAAGTAAATTCAGA
 GAAGCTCTAGAAAATAAGACTGAGACTCTTAAATCTTCTTCCAATGATGTCTACAAAA

17957 TCTACAAAAGTTTCTCCCAAGATCACATGTACACTTTTATAAAGCTTCTTGCCAATACC
 TCATATGTCTTTAAAGTAAGAGCTTCAACCTCAGCTGGTGAAGGTGATGAAAGCACATGC
 CATGTGACACACTACCTGAAACAGGTAACCTAAGTGAACAGGTAACCTAACATGAAACC
 TTTAACTATTTGGGGATTGTGTCAATACCACCTGCAATCTTTATAGCATACTTATCTAAA
 CATACAAAGCACATATTAATAAATAACAACAGGCTTTTATCCACGTGTGCTTGAGT
 [G, A]
 CCAGCTGTGTACTACATTGACCCTTCTCCAAAACATTGGGAGATTGAAGGGAGGAAAAAA
 AGAGAGATGATCCTCTTTACTGTATTTCCACAAATATAAAACCCCACTAATGAATTAT
 GCTTTATTGTGATTTAAAGAAGAAATAAACATGTAAACCTTTCATGTATATCTTTTTT
 AGTCTTACTTGTTTTTATGGAATTCTAGATGTTTTCTGAACTATATGGTTGCAGTATCA
 GACTCATTTTCATCTATTTTCTCCCTTTATACCAGCCTTTATCTTTCATGTTATTGAA

18299 GATTGAAGGGAGGAAAAAAGAGAGATGATCCTCTTACTGTATTTCCACAAATATAAAA
 CCCCCACCTAATGAATTATGCTTTATTGTGATTTAAAGAAGAAATAACATGTAAACCT
 TTCTATGTATATCTTTTTAGTCTTACTTGTTTTTATGGAATTTCTAGATGTTTTCTGAA
 CTATATGGTTGCAGTATCAGACTCATTTTCATCTATTTCTCCCTTTATACCAGCCTTT
 ATCTTTTCATGTTATTGGAATAAATAATCCGGGTGCTTAAGCTTTAGTCCACAAGACGAAA
 [T, G]
 TCTCACCTTCCCTAGCAGTGTCTGTCTGTATCATAATATCCTTCATCCTATTTTCTTC
 CATATTTCACTGCTTATATAAATTAACCTGTTTCTTCTGATAACACCACTTCACT
 GTAGATATTGGCAATAATTGTTAACTTCTGGCACATCCAGACCTTTATCTTGAAACGT
 CTTTCAAGCTGTCTTGAGGCTGTAAACCTAGAACATCAAGACATAGTCTGCCTTCTCTCT
 GATTTTCAGCATCTAACTCCACATCCTTTCCTTCTCATTTCTTCAGTGAACATTTTTTCA

23521 ATGTGATCTACCTGCCTCGGCCTCCCAAAATGCTGGTATTACAGGCGTGAGCCACCGCTC
 CCAGCCTGCCCAGCTAATTTTTTATTTTATTTTGTAGAGATAGTCTCACTATGTTGCCCA

FIGURE 3XXX

GGCTGGTCTCAAACCTCCTGGTTCAAGCAATCCTTCTGCTTCAGCCTCCCAAAGTGTGGG
ATTACAGGCATGAGCCACACCCCAATCTAGCTTATTTGTTAAATACATTACTTATATAT
TTTATAAGAAATTTATAAAATCTTATATACCATTTAATAGATTGAATGTGGGCAGTAAAA
[C, G]
TGCTGCCCTTCTATGGCTACAAAATAGTGCCTAAATCAAAAGTTCACTTTTCTTTGTA
TCCTACTTACATAGCTTTCCTCATCCATCTCCTGAATTAAGATTGAAATAAAGGATGTA
GGAAGTTGCATGATTCTGATTGCTCTCAAGCAAGTGAATAAAAAATTCAACTTACCGG
TGGGTAATCACTAGAAGCACAAAAGACATTATAGTTGCCTATCATAAATCAGAGGGAAAT
AACTATTAGTATATCTAATTGAAATTCAGGTGTTTTATACAGTATCTTTTATATAGACTT

28463 AAAATGTATCACTATAGGATACCCTGTTTTATGCATAAGATAAAAGAAAAATATGTTGTG
ATAACCAAAAAGTTTTAAGGGCTTTCAAGTTATGTAAAAATGGACCTATGGACATGGTTA
ATTGTCCTCAGGATGCAAAATGGAGCTGAAATAGTATATCAAACAATTGCAAAAAGTGT
ACTGCAGCTATCTCTTGGGTCAAATCTGGTACCCAGAAATGGAGAAAAGCCTCAAGAAAC
ATTGCTGGTTGGCCCTCTGCCACTTGACTGTATGATCTGATCACATGTAAGTTTCACAAA
[C, A]
GATTTCATATTTCTCTGCTAGTTTGACGTTGAGAATTGCTCATAAACCTCCCTAATTTTA
TCTTCTTGGTCCTTTGAGAAACACATAGTATCCCAACTTGTGAGAGAGGAAATTTGAGCT
GGTCTTCTTTATCCAGGAGAGACCTGAAAAATTAGGTGGTGTGAGTACTGCAGAGTGAG
GCTGATTTTCCAAAGCACTAACTTTGTTCTGATTAAAGAACAATTTACAATGGTCTCCACT
GCTGTAATGATTATCTTCTTTACGTTCTGAAAAATCTGCTCTGGCTGGGAAGGTGCTG

35221 TTACAATATTTCAAACCTTCAAGTGTCAATTATAAATGTATGTGAAAAACAAAAATTTT
AGTATACTAATTTAAACATTAGAAACATAGAGATTTTTTTGTATAAAAACTTATCAAGA
ATTTTTTTTCTCATTGTTTCACTTATGTTACAGAGAGGGCCTCTTTTCTATGTTTCACTT
AATTGTTATACACTTTCAAAGTTTAGATCAGTTTTTCAATATTTATCCTTTGCACCTTCA
ATATTGTCAAATATCAGCAAGAGTTCTCTTGGTGTGAAATTTTGTGTTTGTGTTTTTA
[C, T]
TTCCTTCAAGACATCATCCTTCATTGAATTCATCAGAACCACTTGCTTTAATTTCTGTCC
ATATTTGTCTTCAAGTAAGTTGTCTTGGCTGCATATGTAAAGTTTCTTGAACAGCAGTGT
AACATTCCTCATGGTCAGCTCTTTGTTCTGAACTCCGTTTATGTTATATTCAAATTTTCA
TTCCAGCACTCTCACTTTTGTGCTCTGCTACCATCTTTGTTAGCCAATATGTGTACAC
GAGTTCATTGCTGTGAGACAAGGAGGCAACATAACTACACAATTTTCTCCCTGTGCATAA

41813 TGTGAACAACCTATAATCAGGTCTTTAATCTTGTCTGACAACCTCTGACTTTTAAATGGA
GTATTTACTTCATTTAGATTTAACTTAGTATTAATTTACTTGACTTTGGATGTACTATT
TTTTCTTTGTTTTCTATATGCTCTATCTCATTTTTAGTTCCCTCTGTTCTTGTCTTCTTC
TTGCCCTTCTACTGGGTAACTATATATTTTTAGCATTATATTTAATTTCTTCTATTTGAC
TTTTAGCTATGTTCTTTGTATATTATTTTTTCGTGGCTTCTCAAGGGACTGCAATATGA
[A, G]
TACTTGACTTATATCTACTTAATTTATGTAACCTGGAATAAAATACATGAATTTTGCAGA
AGTATTTCCCATGTACTTCCCTGTAGTTTCTGCTGTTATTTGTTATATTTTGTACTTACT
TTTATAGATGTGAGTTGTTATACGTGTGAGCTATATATTAATATACGTGTGTATGTG
TGCATGCACACTCGGTTTTCAGCTGTCTTTCTACTGAGCTCCTTGGATTCTCCGTCATG
TACATATAATTTAAATATTAGGCAAGGATTTAAGGGGAGTTTAGTCCCAAACCTTTGGATC

41957 ATCTCATTTTTAGTTCCTCTGTTCTTGTCTTTCTTCTGCTTCTACTGGGTTAACTATA
TATTTTTAGCATTATATTTAATTTCTTCTATTTGACTTTTAGCTATGTTTCTTGTATTA
TTATTTTTCTGTTGCTTCTCAAGGGACTGCAATATGAATACTTGACTTATATCTACTTAAT
TTATGTAACCTGGAATAAAATACATGAATTTTGCAGAAGTATTTCCCATGTACTTCCCTGT
AGTTTCTGCTGTTATTTGTATATTTTTTGTACTTACTTTTATAGATGTCAGGTGTTATA
[C, T]
GTGTCACTATATATATTAATATACGTGTGTATGTGTGCATGCACACTCGGTTTTTCAGC
TGCTTTTCTACTGAGCTCCTTGGATTCTCCGTCATGTACATATAATTTAAATATTAGGCA
AGGATTTAAGGGGAGTTTAGTCCCAAACCTTTGGATCTAACTCCTCTGTTTCCAACTACTT
TAGCAGCTCATACTTTATTCTCTGACACCTCAAGCCAATAGCTGCGTTTTTTTTCTTT
TCCAAGTTCATACATGTTATCTGCAGAAATAGTTTGATATAAGTTATCACCAGATCAGAGT

42599 TTGCAAAATTTTTGCCCAAAATATGAATCTGAGCTCCTTTCAAGGTTTTTATTAATAAT
CTAGTCACACTGAACACTTTAGTGTATAATAGCCTTAATGTCACTTGGTGATGGGTAGAT
AGAAGAGGAGTTTACATTGCAATAATATATATGCTTTAAATGATTATTAGACATTTTT
GTTCTAAAAATCTTTTGATCCAAGTGTGGTGGCTCACACCTGTAATCACAGAGCTTTGGA
AGGCTGAGGTGGGAGGATCTTTTGAGCCTAGGAGTTTGAGAACAGCCTTGGCAATGTAGC
[G, T]
AGATCCCCTTAGTACAAAAAATAAATAGCCTAGAGTGGTGGTGTGTGCTGTAGTTCC
ACCTACTCAGGAGGCTGAGGTGGAGGATTGCTTAAAGCCAGATGTTAAGGTTACACTGA
GCTATGAAGGTACCACTGCACTCCAGCCTGGGCAACAAATGGCACCCCTCATCCCTGTAA
TCCCAGCACTTTGGGAGGCCAGGTTGGGCAGATCTCCAGGTGAGGATTTGAGACCAGCC
TGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACAAATTAGTCAGGTGTGGTGGC

47819 ATAGGGCAGTTGCCTTGAATAGTCTAGTTCAGCACACAGTTCATCAAAGAGAAGATACT

FIGURE 3YYY

GGATATAAATGAGGGTTACTGCTGGTCACTTATGAATACTTCTGAGGTAGCCTTGTTTAA
AAAATTGTCTACAAGTTATACCATATATTTACCTCAGATCAGATTCATTTTGGTTTAT
CTTTCTAAATACATTTGAGTGAAAATGTGGACTAGATTTTGTACCACATGAAAACAAAAG
GCTGTTTCAATGAACCATCATTTATTTCACAGTCAACAAACACTTATGAGTGCCAGTAT
[G, A]
TTCAGTGTCCCATCACTGTGCCTGTACATAATAGGAGGCTGAAATTGTCAATTATGTTT
CCTATAGCCAGGTTACAAATAACTCTTGCCTGGATTAGTGGTTTTCTTTTAAAGACCT
TTTCTTCTCTGAAAGCTTAATTGGAGAATACTAGAGTCTGTGAACGAATATTGATCTGCT
GAAAATTTTTACTGTGTAGCAAAATTTGCTAGTAACAAACACCAGCTATCCTAAATCTG
AACATTGGAGGAAAAATAGTTGATCATAGAGGCATGGGCATCTAGTCATCCCTCCAGAT

51990 TACAATCAGTGAAATTCATCTCATGTGCCATCTCTTCTCTAAAAACATTTTCTGAACAC
CCAGTCAATCAAATACATCTGATTATATTAGAATATTTTGAAAATGTATCTTATGTTT
AGATGATCTGAGTTCAAATTTAGTGACTGAGGCATTTGAAAAAATTATGAAAATCTAAA
ACTTCTTCTCTATAAATTTACATTTTCTTCCCTAAAGATAGTGTCTTCTCTAATTGCT
TTTCTTCTATGATAGGTAAAGATAAAACAGAATGTGTTGTAATAGTGTGCCAGTTTGGT
[-, A]
AATATATATATATATAGTAAATAAGCAATAGATCTGTAAATAATTGATAAAAAATTTA
AGATGAAATCCAAAATTTAACTGAAGTCCAGACCTCTCTCTACAGAATCCAGACTCAAG
CTTCTATCTAGTATTTGATTTCTCTTCTGGGTGTCTGAGAGGAATTTCAAAGTTAACCT
ACTCAAAGAAATTTGTAATCTTCTCTCCCAAAGCTTACCCCTCTTACGGTCACCCACAT
CTTGATTAATAGTGACTTCATCTTTTTATTGCTCAATCCATAAACCTTAGGGCATTTTT

51992 CAATCAGTGAAATTCATCTCATGTGCCATCTCTTCTCTAAAAACATTTTCTGAACACCC
ACGTCATCAATCAAATACATCTGATTATATTAGAATATTTTGAAAATGTATCTTATGTTT
ATGATCTGAGTTCAAATTTAGTGACTGAGGCATTTGAAAAAATTATGAAAATCTAAAAC
TTCTTCTCTCTATAAATTTACATTTTCTTCCCTAAAGATAGTGTCTTCTCTAATTGCTTT
TCTTCATGATAGGTAAAGATAAAACAGAATGTGTTGTAATAGTGTGCCAGTTTGGTAA
[-, T, A]
TATATATATATATATAGTAAATAAGCAATAGATCTGTAAATAATTGATAAAAAATTTAAG
ATGAAATCCAAAATTTAACTGAAGTCCAGACCTCTCTCTACAGAATCCAGACTCAAGCT
TCTATCTAGTATTTGATTTCTCTTCTGGGTGTCTGAGAGGAATTTCAAAGTTAACCTAC
TCAAAGAAATTTGTAATCTTCTCTCCCAAAGCTTACCCCTCTTACGGTCACCCACATCT
TGATTAATAGTGACTTCATCTTTTTATTGCTCAATCCATAAACCTTAGGGCATTTTTTA

52788 CTCAACACAGTAGCTAGAGTGATTCTGTGAAAGAGAGAGCCTGCCACTCTCTGCTCAA
TGAAAGCCATGACATGTCTCTAGTGTCTGACTGGTAGCTTGTACCAGTCACTCAGT
CCTTCTGTGTTATTTCTCAAATATACCAGGCATGCCTCCAATATACAGTTTCTCTGCTT
CAAATTTCTCTTTCTGAAATATTGACATGGCTAGGTCCCTACCTACATATGGAATTTAG
TATCTTCTTTTTCTTTTTTTTTTTTATTATTATACCTTAAGTTTTAGGGTACATGTGCACA
[T, A]
TGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCCTGACCCACTAACTC
GTCATCTAGCATTAGGTATATCTCCAATGCTATCCCTCCCCCTCCCCCACCACAA
CAGTCCCGAGAGTGATGTTCCCTTCTGTGTCCATGTGATCTCATTTGTTCAATTCCC
ACCTATGAGTGAGAATATGTGGTGTGGTTTTTTGTTCTTGCATAGTTTACTGAGAA
TGATGATTTCCAATTTACCCATGTCCCTACAAAGGACATGAACCTCATCATTTTTTATGG

59029 AAAAGTTGGATTCTCAAATAATCCTACATTTCAAGTCTTTCCACTTGAATATCATTCTT
TCCACCTTATTTCTTCACTTCTTACCCCTTTTAAAGTTCTATGGCCATATTTTATTTCC
AGGAGACACAGGGGAAATGGTCTTTTACCAGTGTGATTAGGAGAGAAAGATGAAAAGAT
TTATATTTTCAACTTCGTGATAACAAACATATGATTGCATTCTCAAACTCATAGCTTT
TCAACTAAGTAGTCATAAGTGGTTGAGGATAATCTTTAAATTTTGACGATGAGTTGGTT
[A, C]
CTCGTCTTTTAGTTTCAAGAATGGAGGAAATTTTGTCTTCCAATGGAATAGAAGACATTT
TTCTAATGATAAATATTGTACAATTGAATTTCAAATTTTCAATTTATACATCAAATA
AAAGTTCTATTTATTATATTAAAGTCAGGAAGAGATAATTTGAGATTATATGGGAACTGC
ATATATTATTGCAACATAATATATATGGTGAAATAACATAAGAATAAAAGAAATTATAAC
AGTTAAGTAACGGAAGTCTTGAAGAGCAATAATCCTTTAATATTAAAAATAAGGCATTC

60776 GTGTGTATATATGTGGTGGTGATGTAAAGTCACAAGCTGTTAAATGTTTCTGTGGTGCAC
AATAGATACTTATGCTGAGGAAATGTACAACCTTTAAAGGAGTGTGGGTGTGAAATTAGTA
TGAAATGGAATGGGACTCTCATAATGTGCGTCTCCTATAGACCACCAAGACTGGAAGACA
GCAAGAAAGGAAAATCCTGGGGTAACACTTAGGTTGGGAAAACACAGGATACCATACT
CATGAGGAATTTTAACTACCCAAACATCTGTTAGGTTAAAAAAATTCACAAAACATGC
[C, T]
TCATCAAAGAAGTTTCTAAGGAATGCAACTTTATGATCTAAAAAGAAGAAAACCAAATAG
AGGGCAAAGTACACTTTAACATTATTTAAAATTAAAAATTGTCAATGTGTTACTAAATAT
CAGTTGTTTTCTTAGTTTTTTCTAACTGTGTAATACACTTATGTGATAAGTGTATAG
TAACAGAGGTAGAAATTATCCTTTTTATAAGAAGCAATTATATAATGGTAAGAAGTGAT
TTTAGCCATAAGTAAATAGGAGTCTATAATTCAAGACATTTAGAAGTTCATTTGGTGGCA

FIGURE 3ZZZ

61193 ATATCAGTTGTTTTCTTAGTTTTTCTAACTGTGTAATACACTTATGTGATAAGTGTT
 ATAGTAACAGAGGTAGAAATATCCTTTTTTATAAAGAAGCAATTATATAATGGTAAGAAG
 TGATTTTAGCCATAAGTAAATAGGAGTCTATAATTCAAGACATTTAGAAGTTCATTTGGT
 GGCAGTGCAGTATTAGGATGGGCTCCATCTTGCTGCCACTAGAGAAAATAATATCATT
 ATTCTAGACATGATGGTTGCACCTCTGCAAAATTAGTTAGATGCTGTTGAAAATCTTCTA
 [A, G]
 ATTAGTTACACAGGACTCCCTAATGGGTAATTCAAGACAACATTTCTGTCTCTAGGCC
 GAATATTGAAGTTATTGGTATAACCACTTAGGTTCCCATAGACATCTCAAACCTCATATT
 GCCACCTTCCCTTGCAAGTCTTTTCTTTCTGTGTGTTCCGTGTCTCAGTTTACTGCACC
 ACTATTCTAGTTGTTCAAACCTAGTTATCTAGAAATCATTTGTTAGTTCTTTTACCTA
 CTCTCATCCCCACGAGGCAAAACCTGAGTCCTATTGTATTACCTTCTAAATATCTCTT

62994 ATATAGAAAGGAAATAATTATTGCATTAGAAAATTTCAAACAGTGAAGGAAAATAATA
 AATGTCCATTTAGAAATAGATTGGAGAAGCATTAAAAATATCTAAATGATTAACTGAGAT
 AATTAGCTGGTAATAAGTATGTATAGTGAGACAGAGTTATAATAGATTGATGGTCCATGA
 AAGAACAAGGGGAAGAACAATGTTTAAATTTAGAGTGCTAAGTGTGATTACAAAGAGGA
 GATATATGGGTGAAATCATAATTTAAAGGAAATGATAGAAAGCATATAACATTAAAGTAT
 [C, T]
 TAATAAGTATTCAACTATATATTTAATGTCAAAGACCTTATGCTAGATTATGATGCAA
 ATATTCTAGAAATTTAAATAAAATACTTGTTTTTGAAATCCTATTTACATAAGCAAGTAG
 AAAGTTGTAGCAAAATCACTAAAAATCAAACAAGAAAAGTGTAAGATTATCACTGTTTT
 TTTTTTAAATCATCAATATTTTAGAAAGTCTGATTTTCATAAAGGAAAAAGGGAGGAAA
 TTTTCTCCCCATTAATAGCTTAGCTGTATTTTATCTTTTAAACTTCAAATGAATCTCTC

63244 TGAAATCATAATTTAAAGGAAATGATAGAAAGCATATAACATTAAAGTATCTAATAAAGT
 ATTTCAACTATATATTTAATGTCAAAGACCTTATGCTAGATTATGATGCAAATATTCTAG
 AATTTAAATAAAATACTTGTTTTGAAATCCTATTTCATAAGCAAGTAGAAAGTTGTA
 GCAAAATCACTAAAAATCAAACAAGAAAAGTGTAAGATTATCACTGTTTTTTTTTAA
 TCATCAATATTTAGAAAGTCTGATTTTCATAAAGGAAAAAGGGAGGAAATTTTCTCCC
 [T, C]
 ATTAATAGCTTAGCTGTATTTTATCTTTTAAACTTCAAATGAATTCCTATTTTCTCT
 GAGATCTCAGACTAAATTTACATTGAATTGAATTAACCTTTACTCTCTGAGAATCTTC
 TTTCTGTCCATTCAACAAGAAGTGTAAGTAGGTGTAATACATTTGTGAATTTTGTCTTT
 AACCTCAGTTCTAAGTTCTAGCTCAGCATTAGGCCCTAGGTGAGCAAAATTTAGCTCCT
 ATTTCTTCTGCATTTACCAAGAAGAATTCTGATTTAACTATGAAAATTCCAAATATAG

65053 AGAGGTTTTCTTTCTATTTTGTATTTTTTTCTAGCTTAAGCCAGTCTGAAATTAGTCAG
 GAAATAACTCATTTAAGCATCAAATAAGATGATCATACAGTGAGGTCTAATACTATGAAC
 ATCCATGAATCATTCTTAGTATTCATGAATCTAATCTGACAAATCTTAGGCTTACTGTA
 TTTGTAACTATTGTGCTATACCTCTGTCAGCACCACCTTGCAGTTAGGAAATCTAATT
 AGAAAACACACTTAACATCTCATAAAATGATAGGAAATATTTCTACACTGACAGTGGTG
 [A, T]
 TGCCTTTTGGTCAGCGAAATCACTGGGCTCTAGGAAAACATCCAACTACAAAAGGATAG
 CCAGTTATCAAAGTGTTTTAAACAGTGACAGGAATATGCTCTGAGACTCTTGCTGTG
 TGGAAATAAGATGAATCCAATTGTCAGAGCTTCTTCAAGGCTTCTGATGCCCTGAATTGCT
 TAAGACACAGGAATCCACGAGTGGATTCTTCTAGTCTGAGAGACATCTAACAG
 TCAGTGCTAATTTGTCCAGGTGTGCTGAGTCAAAGTCGACTTGTAGTCTTGAAGTTGTT

68460 ACCTTGATCACCTGTATGAGCTTTTTGTCTCTTAGTGCCTAGCACATAGTAAGCACTTA
 ATAAATATTTATTCATTCAATGAATGCATAAAATTTATCTCAAGGCCAACTAAACATTTG
 GTTATAATAAAGACAAGGGGACTCTAAATATTTTCTGTTTTATACCACTTGAATGTG
 TGGCCGATCAGAAAATGTTTCTGTCCCACTGGTCTTACAGAGCTGGAAGTCAAATTT
 TTCAAATAACATTAATAATAAGGGAGCCTTAATACATTTATACAGAGGTATATCCCATC
 [C, A]
 CCTTTTATAGAGTCAGAGGCAGAAGAGAGGCCATTGAAACCCACAAAGCATCTTATATTT
 ATATTTTCAAGGCAATTAATTATGCTGATGTCAGGAGACCTCTTATAGCTCTCATCTGT
 TATGTATAATTACCTAAATGAATTAGGCTACAATTTGAGGCAGTTTTCTAGGACCATAA
 AGCTAGCAGTAAAAAGAAATGAAATGTCTGTTTATGCAGGGTATGTGTATGATTCTTGA
 TACCTTAGTTGTTGCAGAACTGTGTACCCAATCTGTCTTCATCATTAGCATCTCTTAG

69326 GATTGAGTTGTGCACCTAAATCCATAGACATAATGTTATATGCCTAAGAAATATATTCT
 AAATATCAATTACTTATTCACAGTTTAAAGATTGTCACCACTATTAACTCTTAGTCTGT
 TTTGTGTTGCTATAAAGAAAGTATCAGAGACTTGGTAATTTGTAAGAATAGACATTTGTTT
 TCTTATAGTTCTGGAAGCTGGGAGGTCCAAGATGAAGGTGCAGACAGATTGCTTATCTG
 GTGAGGGTTGCACCTCTGAGGGGAGGAACGCGTGTCTCACACAGTGGAAGCAGAAG
 [A, G]
 GCAAGCTATCCAAATGCTTAGTGAAGCCTGTCTTATAAGGACCTTAATCCCATTACCAT
 GGGAGGTATTCTCATGACGTAATCACCTCTTATAGGCCACCTCTTCATACCATCACAT
 TGGCCATTGTATTTCAACATCTAAATTTTGGAGGGGACATGTTCAAATGATAGTAACATC
 TTATAGCTCTCTAGTATTGAAATAAACCTTTTGACTCTCTTCAGAGCATGTGATTCACTT
 GAACCAGATATACTGCCCATATTTATACCATCCCACTTGCAAGAAATATCTGCAATTT

FIGURE 3AAAA

73039 CTATAAAAGGGCAAGGAAAAAGAACAGAGGAAATGTAGCAAGAGAACGAATGAAAAATAA
TCTAAACCTATAGAATTGGTGAAAAATCAACTAACTCATGATGGTGAGTAGGATA
ATTAAGGATGATTGTAAGTTATATGACAGAAGATTATGAGGAGGAACAGATCTGTAGAGG
AAAGGAATGAGTTCAGTATTAGACACACTGAGTTTGAATATGTGGCAGTCTCCAGGTC
AATACACCCATTGGCAGTATTAAATATGGATCTGGAGCTCAGGAGAGAAATCTGGATTT
[C, G]
CAGATTTGGGTAATGTTAGTATTTAGAAGATAGTCAAAATTATAAGAGTGAATGAGATTC
ACTATGGAATGTGCAAGTAAGATGACAACCTAAGGACAGCACCCCTGGGGACTATCAACA
CTTAAATAAGAGGCCATTGAAGAGACTGAATGGGAGTAGATAGCCATTGGATGGAAATC
CAGGTATGAAAGTCAAACCTTCATATAAGATAGGATGCTCAATGATGTCAATAATGCAG
AACTGTTAGCCAGAATAAAGACTGGAAGTATTTCTTTGCACCCTGCTTGGGTTTTGCTG

73084 ACGAATGAAAAATACTAAACCTATAGAATTTGGTGAAAAATCAACTAACTCATGATGG
TGAGTGAGTAGGATAATTAGGATGATTGTAAGTTATATGACAGAAGATTATGAGGAGGA
ACAGATCTGTAGAGGAAAGGAATGAGTTCAGTATTAGACACACTGAGTTTGAATATGTG
GCAGTCTCCAGTCAATACACCCATTGGCAGTATTAAATATGGATCTGGAGCTCAGGAG
AGAAATCTCGATTTCCAGATTTGGGTAATGTTAGTATTTAGAAGATAGTCAAAATTATA
[A, G]
GAGTGAATGAGATTCATATGGAATGTGCAAGTAAGATGACAACCTAAGGACAGCACCC
TGGGGACTATCAACACTTAAATAAGAGGCCATTGAAGAGACTGAATGGGAGTAGATAGCC
ATTTGGATGGAATCCAGGTATGAAAGTCAAACCTTCATATAAGATAGGATGCTCAATG
ATGTCATAAATGCAAACTGTTAGCCAGAATAAAGACTGGAAGTATTTCTTTGCACCCT
GCTTGGGTTTTGCTGGGCTGATGAACACAGTTTTCTAATAGCATCTTATGCATTAAATT

75205 ATGGGAAAGGGTGGAGGCGGGTAGGAAGAGAAAAAAATAGGAAGTGGGGCAGGAAGAG
GAGAACCAGAGTCTAATTGCTGATAATGAATATAAAGTAACACTTCAAAATGATGAAAG
ACATTTTATAACAATAGATTATCAAGTACAATATGAGCAAACAACTTGAATTTGATTGA
AGGAAATGAGTCAGAAAGATGTGATTTAGTCTGGGTAAGTGGACAAGTAATAGCTAA
CAACAACAAAGGTGTAGTAGGTTAATAAAGAAAGGTAATGATGATCTTTGTACTGCCA
[G, A]
ATTTGAGGACCGAGAATTCCTTTCAAATTTTGTAAATACTTTTAAAGATATAATATATG
CGTGCCATGTCTATTTTGCAGCTTGATATTTGTTATCTATTGTTTTAATGGAAGGCATT
GGAAGAGTATAATTTATAAATTATACTTATAAATTATAAATTATAAATTATAAATTATA
AATAGTTAAATTTATAAGATCAAACCCAGTGACCTTGTGGAAGTGTAGAATTTCTATGGAC
TCTTGAAAGACCTGGGCTCAAATCCTTCTGCTACTAAGTAACACTGAGGAAGTCACC

75491 CTTTTGTACTGCCAGATTTGAGGACCGAGAATTCCTTTCAAATTTTGTAAATACTTTTA
AAGATATAATATATGCGTGCCATGTCTATTTTGCAGCTTGATATTTGTTATCTATTGTT
TTAATGGAAGGCATTGGAAGAGTATAATTTATAAATTATACTTATAAATTATAAATTTAT
AATTTATAAATTATAAATAGTTAAATTTATAAGATCAAACCCAGTGACCTTGTGGAAGTG
TAGAATTTCTATGGACTCTTGAAAGACCTGGGCTCAAATCCTTCTGCTACTAAGTAAC
[A, C]
CTGAGGAAGTCACCTTACCTCTATAAAATCAGAATTCAAATAGCTATAAAAGACAAGTGA
CATGAACCAAGTAGTCAAAGTGAAGCCAATTGAGTGGGGCTCCAATGAATGGGACCCAGGC
CCCTTTACAGAGGTCAATAGTTACCCATCTCTGCACCTCTCAATAATATTTTTTCAGCAT
GAAATTAAGCCTTAGTCTTAAGGAAAATTACAAAAAGCATATTTTATGTGATATTCAAAT
GTTAACTAGTTAAATACACATTTTCTGCCAGTGGCATATATCTCTGATCAATAGGAT

75962 TTTTCAGCATGAAATTAAGCCTAGTCTTAAGGAAAATTACAAAAAGCATATTTTATGTG
ATATTCAAATGTTAACTAGTTAAATACACATTTTCTGCCAGTGGCATATATCTCTGA
TCAATAGGATTTCTACGCTGATTTGTTTTCTTCCATTTTCGAGAAGTGGGGCATTTCTG
TCCACTGCTCTGTCTTAAGGTGGGAATGATCTATTGACTGTATGCAACGATAGTATTAT
TTATATCATCCTTTTACTATGTTTCTTTTTTTCTTTTTTATAGCAACATCTTTTTTTT
[A, T]
AAAAAAATTTAGTTAATTTTATTTACATTACCTCAGCAAACATCTCTATAAATGAGTTT
CCAGGACAACATTTACAATATAGTTATACCATATGCAAAATCAATGTGTGTTTCGCCATAT
TATCAATAAAATATGTTCTTAGCAAAGAGCATTAAAAGAATACATTGAACCAACCAACCA
AACAAAAATATTTTCAAAGTTATAAGGGAAGGTCAAGTTGAAAAATGGACTTAATAGTGT
CACTGTGTATAAACCTGGTTTTAAGTGTTCATTAAGATACCTGAAAGTAGTATGTAT

82853 TTACCTAGCTACAGAGAGAAGGAACAGATGTTAGAGTAGATGAAGGGAGAGCGTAGATAC
AGTGGCTGTAGTGCTCTGTCTCTTCTTACATTCAATTAAATCATGGTCAGTCCAGGTCT
CAGTGATAGGGCTGTTTAGATCACTCAGCCTTTGTTCTCAGCGTTTAGTACCAGAACATC
AATTTTAGAAATACTTCAATGTTAATGTTCTTCTACATATATATATTCAAGTGCAAG
AAAATACAATTAATAGACTATATGCAGTTGTTTTTAAAGAATTATTTAAATTACATGT
[T, A]
ACCATAATCAGTTTTATATATATATATAAATATATATACATACATATATAGATACA
TGCATATATATATATATACACACATACATAAGCAATCACTTGAATAGTAACAAATA
TTTGTGTTGTTTAGGTTTACGCAGTCAATAGTGTGGTGCAGGTCCAAAGGTCCGATGA
GAATAACCATGGATATCAAAGGTACATACATGAGCTACCTTCTATGAAATGCTATTAAAT

FIGURE 3BBBB

CAGTGAATTATAATTTAAATTCATACTTGAAATAAGGATGTAGACAAGCCTTTAAGTGAT

82930 GTTCTTCTACATTACATTAAAAATCATGGTCAGTCCAGGTCTCAGTGATAGGGCTGTTT
AGATCACTCAGCCTTTGTTCTCAGCGTTTAGTACCAGAACATCAATTTTTAGAAATACTT
CATTGTAAATGTTCTTCTACATATATTATATTCAAGTGCAAGAAAATACAATTAATAGA
CTATATGCAGTTGTTTTTTAAAGAATTATTTAAAATTACATGTTACCATAATCAGTTTTA
TATATATATATAACTATATATATACATACATATATAGATACATGCATATATATATATA
[T, C]
ACACACACATACATAAGCAATCACTTGAAAAATAGTAACAAATATTTGTTTGTGTTT
TACGCAGTCAATAGTGTCTGGTGCAGGTCCAAAGGTTCCGATGAGAATAACCATGGATATC
AAAGGTACATACATGAGCTACCTTCCTATGAAATGCTATTAAATCAGTGATTATAATTTAA
ATTCCATACTTGAAATAAGGATGTAGACAAGCCTTTAAGTGATAAATATGCATATATTTAA
GCACATACTAAGTAAAAATGTGTGGTTATTAAGCTATAGTTAAAAACGTTTAAATGATG

88505 GAGGTTCAATCATGTATTGCAACGTATTGGTTTTATGTTTTTAAATGCCCTTGTGCCTTT
ATTTTTAAATTAAGTAAATTTCAATTGTCTCTGAGGATCTTAGATTCTTTTGTAAATTTT
TAAGCTTGATCTTCTTCTGTATCCTTTACTTCAAATGCTATGGAAGCAAAAAGTATACA
AATGCAACTGTGCACACAGAAATAACAAACATTTTCTTAATGTGTTTATATGTGAACA
AGACAAGTTCTATATCATCATTTTAACTAATTCAC TAGCATTGCAAAAGTGATTGAGG
[T, C]
ATAACAGTTATGCCTTTTATTTATAAATTATGTTAGTGTAAACCCCTTCACAGATATCAA
ATCATTTCCATCTAAACAAATCCTTGAAGGAGGTGAGCTGATTCAAGTTGTTCAAACCTGCTA
ACTGCTCACGAGTTTACCAAAATTTTAGCCCTGCCTCATCAAATTCATGCGGTCAAAGT
ACGAGATAATTATTTGTCTCATATAAATATAGCATATATTTCTCTGATGATGATTCCAT
TCCAAATTTTCATCTGTAAATTCATTTTCTTTGAATTAAATAAATAGTTTTTATAATT

95970 AGAAAATGCGGGAGTTGTGCTTTCAATTTTAAATAGTGTGCTGTGTTAGTCTGCTCAG
GCTGCCATCAGAAAATATCATAGATGGGGTGTGTTAAACAATAGAAGTTTATTTCTCAC
AGTCCAGAAAGGTAGAAAATCTAGGATCAAGTTTCTGCCCATTGTTATCAGGTGAGGGC
TCTCTTTCTGGCTTACAGATGGTTGCCTTCTTGCAAGTGTCTTACATGGCCTTCTCTGG
TGCATGGATGGAGATAGAGAAAATATGTTGGGGGAGGAGGAGGAGAAAGAGTGAGTGG
[-, A, C]
ACACACACACACACACACAGAGAGAGAGAAAGAGAGAGAGAGATGGAGAAACAGCT
CTCTGTGCTCTCTTCTTATAAGTCACTAATCCCATCAGATCGGGGCCTCACCTATGGCCT
CATTTAAGTGAATTCCTTTCTTACTCCAAATACAGCCACACTGGGGATTAGGGCTTCAA
CATATTAATTGGGGGAAACACATGTATTCAGCCCATATATATGATCATTGAGAAGGTA
TTTCAGCAAACCTTTAAAGGAAGTGAAGTGGCTACCCAGAAAGATATACAAGGCATACAC

96524 TTAAAGGAAGTGAAGTGGCTACCCAGAAAGATATACAAGGCATACACACCTTTGCAGGCA
GAGGAAGAAGCTGCTGCAAAAGCCATGTGTCAACAATGGCCTTGTGTTATTCATCAATAA
GGAGGCTAATCTGGCTCCCTAGGAGTGAGCAAGCAAGTGGGGACTGGAAGGGAAATCAG
AGGGGTAACAGGGGACCAGACAGTTAATGAGGGACCAGATCACACATGCCACTGGAAGGA
TATGGGCTTTTCTCAGTGGGAGATGAGGAGGATTTAAGCAGAGAAAATATGTTTAAAA
[C, T]
GATTGTCTTGTCTGTATGTTGAAAATAGGTGGAACAAGGACAAAGGTGGATACAGGCAG
ACTTGCTAAGTTTTTAATTCATGCAAGACAGGATGGTGGCCTAGATCAGATTATCAGCAG
CAAAGGTGGAGCAAGTGAATGGAACATACATAAACTAGAAAAATGTTGTATGTAACC
CCCAATACCTACTAATCAATTTAATAAATTAACATTTGGCCACATTTGTTTTATTT
AGACATTGTTCACTTATTTCTGAAGTAAAGTAAATGACATAACGCATATTCCTCTCTAA

100868 AGATCTATTCTCACCTGAACATTCTTGGGCTTTTATACATTCTGCTTTTGTTCAGTCAC
CCTGAAATGTGCTTCTCTCTCTCTCATCTGGGACATCCAAGTCAAATCTACTTCTT
TACCTCTCTAAATAATAAATACTATTTATGTAACATAATCAGGCACTGTCTTATGTGTG
TAATTTGAATCTTTTTTCTCTTTTCATGTTTTTCTGCATTGAAATCTTGCCTCTCAAC
TAAATGTAAATGTCTTTGAGGGTAGGGAACATGTTTATACTTTCCATATCATCTTGAT
[G, A]
TCCAACTCTTAATAAATACTAAATATTTGAAATGTGAAAGATAGAATAGCTAAACATTAC
TTTGTAAATATACCATCTGTGTATGGAGAAAATAGCATTTAAAGGGTTAAGATGAAAA
GAATCTGATTGATTCTCAGATTCTATGTGGCTTTTATTTTGAACCTAAGTTTTCTGATT
GTAAAGATAATATCTACTCACAATATTTTATAAAAATCAATAAGATAATTTGAAAATA
ATTTTAAAGTATTTTATGATGTAAAAATATTTATATATGTGAACACAATGGGGCATT

102246 TTCCTGGGACAAATATTTTCCACATTAAACCTTTGACATTATGTTTAAATAATTCATTTT
ATATGATAGATTTTTACATTAAACTTTTCTGGAAGTGCCACATTTTCAATCACAGGTTT
AAATTAATTAATTTATAACTACTTGATATATTTATATCCATTTTATAAAAGCTTTTT
AATAACTATTTTCAGTATAAAAGTACATAAAAGTCTAAGTTGTATATGATATCATTTTTAC
ATTTCTTTGTATTTAAAAATTAATATAAAGTAAAAAGTTACCTTCAGAGGGAAAAGTAA
[A, G]
AACATGTGTACTAAATATGTTTCATTGGTACCTATTGGAATAGTAAAGTACATAATTTT
AAAGAAAAATAATTTATAATCCTTTTAAAGCATTATCAATTATTTCAAATGTTGGCAC
ATTATAAAAACCTTGTCTATTAAAGATAATTCATCAAATCTTAATGAAAACTACCATCAGG

FIGURE 3CCCC

CTATTTTAACGTTTGCATTTTATAAGATTCAATAACATGTAATGCTTATAAGCACAAAG
TAGTTGTTACCAAGTATTTGCTCAGCTCTGTTAAAAATAAAAAAATTATTATTAATTTTG

107335 TCCGTTCTAAACTTAAGCTATCTTTGCAAACAATGGCAAAAATTTGTGAATTCGGAATAC
AAGAAATGTTCTATGCTTAGAATGAAATTGGAGATACTTAATGCTCATATTTCTTGTAAATA
ACAAATCAAAAATAAATTCAGTGTGTTTGTATACTAAATAATGAATCTTTACTTGCAGATA
CTCTTCATTTTCTTTAGACGCAAGGAGATTTTGTATCCAGTAAGTTACTGTGGTAAT
GCAGAACTCTGCTGTGATTATTTAATCTTGTGAGGTGTGCTCTATATTTTAAAAATA
[T, C]
ATAATATTGAACATCTTGTGTTTAAATGCACTATTTTTTCCAAAGCTCCCCCAAAAGCT
ATATTTCTATTTACAACATGTCCTTTATAATATTGCATGCTATTGATAATGGTCAAGTTA
ATCTTATCAAAATGCACATTGACTCATAATGTGCATGTCCTGAGAATTTGCTGTGTTCTC
ATGTTGTGTTAGATTTGATAGCAAAATTAAGTTTGCACCTAGATTCTCTGTACAGGCTTCTC
ATTCTGTTATCAACATGACGCAAGAGTTGAGCTCTACATCTGATGGGTGGAACCTATATT

107921 GGTGGAACTATATTTACATTTTCATACAAGCTCATTTTGCAACTGTAGATGGTTAACCT
GTAAGGACCAAGACAATGACATTTCTTGTTCCTGACTCTCTAGTGCATACACAGAATGG
CATATTTTCATGGAAACGTTATTTCTCCACTGACCAATGGGTAGCCAACTGTGCACGCTTC
CAGGCATCCCTGATGCTCAGAAATGCCATTGTATCTGGCAAAACATTTTGTGTTA
CATTCTGAGAGTAGCATAGCAGAATATCAGCACTAGCAGGGACCCAGTAAGTATTGAG
[C, T]
GTCCCAACATAATAAATTTCTTCATGCAAAGAATGTAAATGAAGGAATATGAATGGAGG
CAGAGAATAAAAAGGCATTTGATTTCAAAATCACACGCCCTTACTAAAGAAGAAATCCGTCT
TCATGAGCTATAAGGCTGAATGGGGCCAAAGCTCCTGATAGTCTGGTTAACCATGAATAA
TACTCTGCATTATTAATAAATCAAGGAAGCCCGTCTATTTCTAATCTAATCATTATAGCA
TTTGGGAATCATAAGTAACCTTGTTTAACTTCAGATTAACCTAGTTACCAAGTTCCCAT

110413 TTTTAAATTTTATATTGAGCACCGGAAACATCAATGATTTGGTAAAAGAATACAGAAGG
ATGTGACAGAAATGCAGAAGGATGTGAAAGAATGCAGAAGGATGTGAAAGAACAATAA
GAAACTAATAGGAAATAACAAAATTAAGGCACCTTTAAAGTATTAAAAATAGATGCTT
TGGATAAGCGATAGAATATTGTAGAAGTAGATGAATTTATGTGTCATTAGTGACTTGAT
GAAATATATAAATCAAACTCACACTCAGTATCATACAAACTTGGAAATATTAATATT
[T, G]
TACCAGAGAAATAGATTTCTTCACAAATTTAATCTAAGTAGCAAGTACATGCTATGGGATA
CAAATACATATTTTACACCAATTGACAAATTTGAGATTTCTTTATTTTAACTTAACAT
CACTGGTTAAGTAGAAGAAAAGTTTCTCAGTTTGTCCCATACCACTGGTAATGCTGGTTG
AAGCTGCTCAGCTATAGGTTATCATCTGTGGCTCTCTATTAGGACTATATTTAATCCC
TATAGATTTCAACTAATTGACCTTGAGGGAAGCTGAGTCTCTGTGACAATATGGTCTTC

111600 ATAAATCAGTCAAATTAATTTTTTGTATATAAACATTAAAGCTTAAACCTCAAAGAAA
AATACAATTTAGAAATGTAGCCAAACACCTAAGGGAGAAATACACCTATACAACATGAGGCT
AAGAACGAAAGCAATGATAAGTATACTACAGACAACAATGAGGAAGGAAATATCTAACTT
TTATTTGAAATAGTCTCAGTAATGTACCTCAAAATGCTCTCTCAATTTGAGCATTCTCAAT
AGGTATTTGAAGATTTCAACTCACAATGATTGTGACATAAGTACAGACTAGAAAATTAC
[A, G]
TAAAAACTGGACTACTAGAAGCTTTCTTATCTTATATAAACATAAATGTGAAGAACAGAT
TCTAAAAAGTGATTGGATTTAGATAAAAAAGAGTGATACAAAAGAAAAATAAGGCCAAATC
AGATTCCACCTCTCTTTTCTTAAAGTGTGTGCTATTTGTTTATCACTTGAGTAGGCAA
GAGCAATTTTATGTTTCTTTATCTAATCTCCTAACAAAGTACACCTGTTAATTTATAAC
GTTAGGTTATCTGCTATGGCTTTTGCTTAGACTCACATGCTTTTGTGTATAAATCTATT

114518 CCCAAATCAAAGATTTCTTCTCATTTGGTAGCCCTTTCAGCCATCTCCATATCCATCTAGA
ATAAGGAATTTCTTCTGCTTTCTTTAAATCACTCTAGGGTATTTGTGGGGCACTCTTAAG
CTTATCCACCAAGACTCTTTGTTAGTCACTGCTACTTTGTCACTTAGATGCCCTGTTTGG
CAATGGAAATAGTCTATCACTTTATGTTTACCCTGAGAAGCTGGAAGATACAACATCTCTT
TCTGCTTGGGGGGCACCCATCATTAAGTGAAGATCTAACATTTCTACTTTGTAATACCTG
[G, C]
TCCAGCATCCCCATATTTTTCAACAATTCCTGTATTGTAATGAAATATACTTCCTTTTAA
ATCCTGTTTTCTTCATTGAATACACCTCTTTTGACCATTTTCATATTTATTATGCTCTG
TTTTTCAAACCATTTTTTTCTTTTATTCTTTGCTTCAAAAACATATCTTCTTAC
AAATATTCTTCAATTAAAGAATATAGTAAATCCCTAATATTATTCTAGATTTAAACCTT
TGAAAAGTCATATGTTCCCTTAGTTCATTTCAATATATTTGTGCTTTTGTGTTTTTTG

114614 AGGGTATTGTGGGGCACTCTTAAGCTTATCCACCAAGACTCTTTGTTAGTCACTGCTACT
TTGTCACCTTAGATGCCCTGTTTGGCAATGGAATAGTCTATCACTTTATGTTTACCCTGAG
AAGCTGGAAGATACAACATCTCTTCTGCTTGGGGGGCACCCATCATTAAGTGAAGATTC
TAACATCTCATTGTAATACCTGGTCCAGCATCCCATATTTTCAACAATTCCTGTAT
TGTAATGAAATATACTTCCTTTTAAATCCTGTTTTCTTCATTGAATACACCTCTTTTGA
[C, T]
CATTTTCATATTTATTATGCTCTGTTTTTCAAACCATTTTTTTCTTTTATTCAATCTTT
GCTTCAAAAACATATCTTCTTACAAATATTCTTCAATTAAAGAATATAGTAAATCCCT

FIGURE 3DDDD

AATATTATTCTAGATTTAAAACCTTTGAAAAAGTCATATGTTTCCTTAGTTTCATTTATTAT
 ATTTTGTGCGCTTTTGTGTTTTTTCAGGTGCTAATTTGTGTGTCATGACGTAAGTGTATT
 AATGATACGCCCTCTCTAAGTTTGTGTATGTTGTGTAGCCTATTTAGCTGTTAAAAATTA

124669 TATATTATGAACCTCCTTTGTATTACTTTTATAGTAAAAAAGTAGTAACAATTTAAAAAG
 CCAATTAAACATTGATTCTTTATATTTTCTTCTAGATAATAAACAAGAGTAAAGCTGATA
 GCTGACGCTAGTGTTCAGGTTCCGATTATATTAATGCCAGCTATATTTCTGTAAGTTAC
 TATTTTATATATTTTATAATTGTATAAAACATAATTACTGAAATTGTATTATCTTTCCAA
 TTACTTAAAAACAACAAATTTATTACAACCTCTATGGATCTTAATATGCTAGTTATTTACA
 [G, A]
 CCACATTGTGTACCCTTATTTTATAGATGTGGATATGGATATGCCTAACAGAGATACTAA
 CTTATCAAAAATTATTTACCAGTGCAGGCGGAGATGTTCAACTTCAGGCTACACATCCCT
 GATCTTTCCACTAATTCATATGCTTTGTAAATGTATTCTCCATATGCAATGAAGTTTGCC
 AATCTCTGTGAATTTAAAAATTATCAATGGACAGTTATGTCCATATAACATGAAATTTA
 TTATGCAGCTCTTCCCTTCTAGATCTGCAGTCTTCAAGCGGGTAATTAATGCCATCACCA

125409 TTGATTTCACCTTCTTCTTAAGACGGGATTCTATCTCTAAACAACCTCTGCTTTACAGT
 TGTGTTGGGTTTTTTTTTAAACCAAGTTATGTCTCTTTATATTCTTACCCACTGACTTAAATT
 CTAATGCATAGCAAGCTTAACCATCTTCTTATTATGGTGAATCTACAAATACATGAAGATTT
 CCTCTGCTGCCCACACTCTCCATAGGCTTTTTCTTATCCATAGGTCTTCTCATCCATGCC
 CTCTATTTCCCTCAGTTCTATTAAGGCTCTTGTATATGACGTTCCACCCCTTCTCCAAC
 [G, A]
 TCAAACATACTTGTGCTGTGCTCATTCCCTCCAAGCCTTTGTGTCATGGAGGAAAAAAGC
 AATTAGTTCTAAATCTGATATTGGTTGATACTAATCTAAAATTACAATCATATATTGGG
 TCCTGTTGTCAAAGGAGTGAATAATGGGAGAATTTAAGACTTTAAGACTTTTTAACCAGA
 GAAGTGAAGGAAAGTTTAGAGAAGCTAAGGTATTCTTTAAATTTCAATCTATTTTAATGC
 TAGAATCTTAAATCTGTATTTAAGAATTACATGAATTTACTATTATGGTAACATTTTAT

129447 CCAGAGGAAAAATCTCTGAGCTAATTTAAGGACTGCAATGAAAAGTGGCATCCATGGGTAA
 AGGTCATAATGAAGTTGACCTGTGGAATGAACTTACACTTTGTTCCATGTATCACAGA
 GCTTTAAAAACCACTAACTCTATATTCCAATTAAGGGCAAAAGTCCAGGCAAGAAGTT
 TCCTCTCAGAAAACTCAAAGTTTGCACACACATATTCAAAGGTAGAAGCAGAAATAGC
 AAACAGAAATGACATACTTCTTCAATTTTCATAAGATACAATGAAATATCTCAAAAA
 [C, A]
 CTTTGGGCAAAACATTTTACCTGGTGCTTTACCATTCTTCTGAAATAAATTAGCCATTACAG
 GAAGAAAACCTAAATGTGTCTTAGCTTCTTTACATGAGAATCAAGGGGGGAAATGTGACC
 ATATAAGATATATTTAAATAACAGATAATACATAGATATATGTATTAAAAAGAAATATA
 AAATAATATTTCAAATCCTGGAAAACCTGAGATCATATAATGTTAGTTTTGTAAATAAGTT
 GTAACAAGATTGTATAGGAATAATCCCAATTATTTATATATGTGTATATATAAAATAT

135139 TTACCATGTTTTCTTGGGTGAGAACTCCAGACAGTAAATGCCACTAGACTAATGACTAA
 TGCCACAGTTAAGTAGATAAGTAAATTTCTTAGAGGAAGAGTGATACATATATCTGCACAA
 CCAATTAATACATGGCAGAAACATCATGGAGTGGGTTTAGAGAGCTGGTTCTGGGCTCAA
 CCTGCCTTACCAATTTTGTAGATCTTGGCAAGTTACTTCACTTTCTAAGCTTCAATATCT
 TCATCTATAAAATGAGCATAATATTAGTACTAATTCACATGATTTTATAAGAATATTGA
 [A, G]
 TATAAGATGCTTAGCAAACCTGCTACAAAGACTCAGACTTAAGACCTTTATTAAGTTCTGT
 TATTATTGTAATATTATTATGTAGTCTTAATGTTTTATTCAAAGTTAGACATAAATT
 TTGAGAACCATTGTTGTGTAGTATATCAGATTGTGAGGATAAATTTAGACGTTGGAAAT
 TTTGAGTATTTAAGATTATCTAGTATTTACGGTATTCTAAAATATTAGGTAATTTTACAA
 CCAGCATATGTTTCATGCATTGATCGAAAACCTAAAACACTGTATCTGTGAACACAGTGAT

148111 TATCTTCATTAGTTTCTTGTCTAAGACTTCATAGATACTAGTTACTCTCTGGGGTCCCTG
 AAGCAATAGTATTAACCCCTCACACAAATCAGTAAATGTGAGTAGTAGTTGGTTAGACGGA
 TCAGTCATGTTAGATTTTTGTGTATTTAATGTAGCAGATAGGAGATTCAAGCTTTTTTT
 CTCTCAAGCTTGAGAATACAGAGGCGATAGGTCTGGCTTACCTTGTA AAAAATGCCAGCA
 GCTAACAAATGAAATCTACCAACACAGGCTGGGTATTTCTCTGATTTTTTGCTTGGGT
 [A, T]
 TACAGTATTCTAGAGTTACCAGAAAACCTATAGTGGACAATTAGCGGTGGATGCCAAGAG
 AATGCTTGGAACCTTTGAGAATGTTGGGTGGACATTAATCAATTGATATAAGCTTTGGGT
 ATGGAGGACACGTTATGTTATAATCATTAGAAGAAATTTCAAAGGCGATAAAGAAAAAC
 TATTTTCAGAAACGCTCTTCCCTGAAACACCAAGAAAGTGACCTATTATGTTAATATTTT
 GTTATATGCAATGTGCCCTGTAGTTTTGTTAGAAAATGTACATTTATTATATCCATTT

200822 ATGGGAGAGACATGTTATTCTTTTGCCCTTATTCTATTGGTTAGATACAAATCATAGGTC
 CCAACTAACTAAAGAAGAGGAGATTTTACAAAGCAGGAACAACAGGAGGTGGGTATAGTG
 GGTATCTACCTGAGAGGCCATGCACTACACTCCCCAGCCTACTATTTTATATTTCAAAC
 ACTTATTAGAATAATCCTTCCAGATTTAAGTATGTTATTTACATTATGAAAGTAACCTAA
 TAAGAATTGAGAACAGATGACGAAGGTATATATGTGTTAAGTAACCTAACTCTTCACTA
 [T, G]
 CATTGCAGAAAATCAATAGATTCTAAAAATGAGTGTTAACAGAGCAGTATATGCATATTA

FIGURE 3EEEE

TTTAGTGTTTTAGGGGTAAACACCATAAGAACTGAAAAACAGGAGTGGTTTAAAGTGTTC
TTCTGGGAAGTAAGAGGTAGGGAGGGTATAAACAGGGAATTGTTATTTTCATTATAAAC
CTTCATCATCTTTTGTAGCCATGTAGATATAACATGATGATTAACTTAAAAATATA
ACCCCTCATGCTAGGCATGATTGATCTCATTACCCTTATTGAATTTTTTCCAGTGAA

207967 CATACATAAECTCGATTAAATGTGTTTTCTTTTACTAGATTACCACAAATGAAGTAAAA
AGCATCAGATCACAAGCTTCATAGAAAATTACTTAACTGAAGGAATCTGTATCTGGTAT
ATCAAAATAAECTATTATTGAAGACTAAAATGTACGAATGCAAAAATCAGCTGAAGTAAT
TCAGCTGACATGGTATTGTGCAAGTCAACTATACCCCTGAGTGTGCCAAAAAGTTA
CTTTTGCAACTTTAAATATTGCCTTAATATTTAGGAGAGAACTTGAAGTCACCAACAT
[A, G]
GAAAGGCCTATAAGCCCAAGAATTTGAGGAGACTGCAATTATTGGAAGCGATATAGATA
TCTAGTCCCCGTATAAATCTTCTTACTGGCCTTATATTAATGGCACCAATCCCAGA
GTATTATTTAAGGACATTAAACAGTTTGTCTTGTCTTATAGGGTTAAAGAAATACA
CAAAATACAAAATGAGAGTGGCAGCCTCAACCCACGATGGAGAAAGTTCTTGTCTGAAG
AAAATGACATCTTGTGAGAACTTCAGAAGATGGTAAGAATATCAATTGCAGCTTTAATT

213624 CCTGAGATTCTTAGGTGCCATTCTAGGAACCTTGGAGTTAATTTTAAATGAGGAGCTTTT
GGAGAATTATGGAATAGGAACATTATATGATTACAGTTTCAAAGATTGCTGCTGAATA
TGTTGAATGTTGAAGTAAAGAGAAAAATGAAGATAAACTATTAGATTGTTTGTCTGAGTA
TCTGGGTGAGTGGTAGTCCATTACTTAGATGGGGCAGTCCAGGGAAGAGGTCAATATG
GAGAACATCCAGGAGTTCGTTTGCAACATGTTTGAATATCCAAGTGCCATTATGAAGG
[A, C]
AGTTAGATAAATAAGTTTAAAGCTCAGGGAAAAGATACAGAGCTGAATATATAAATTTGGA
GCCTCACCACATCTTGGTATTCAATCAAGGGATGAGGATAAAGTCATATCACTGGACAA
CAGGGGGAGACGTTAAGAAGCTTACAGCTATGTCGTGGGCAATACCACATAGACTTTG
AGAAGTAGAAGAGCTAATCAAGGACAAAGCAGAAGTCACTGGAAATAGAAGGAAACCAG
AAGAAGATAGTGCTTCAAAGCCAAGTGAATAAAGATTTCAAGTAGAAGGAGTTTATTC

215753 TCAGATAGAAAGGATAGTGAATTATATTGCTAAATCGAACTATGCATTGAATTGCAATC
CTCTCAAAGTTTTAAAGTATCAATATTCTTAAATTAGTTTTTCTATTAAAGTGTGCCTT
GACACCATAACCCAATAAECTGGTAACAATCAAGGGGAGGGACACTGTATCTACATTTT
AGGCTTCTGAATTTTATTTATCTACTAAATTTATTATTAGTAATTTTATATGCATTCAA
TTTGAATACTAATAAAAGTTTAAATTTCTTTCAATTGAAAGAAAAGAGTTTTATAACAG
[A, G]
ACTCTTGAATGGCAATAATATTTACCTATTTAGTTTATATTGTTTAAACCTCCAAGTTAA
TTATTATGTTATTGTTCTATGTACTCAATTTTAAACCATTTATCTTGGCCACTCTGATC
TTTCATCTGTGGTAAATAGTTTTCTACCTAAAGTACATTGTCTACAATTTCAATTTACTGA
GGATGTGTTGAAAGCATTATCCCTCAATTTTTTTATTGTCTGAATATGTTTTTAGTTTG
CTACTCTTTATTTTTCTGGGTATGGAATTCAGTTGTTTTTCAGTTGATGTTGATTGTCA

216081 ATTTAGTTTTATATTGTTTAAACCTCCAAGTTAATTATTTATGTTATTGTTCTATGTACTC
AATTTTTAAACCATTTATCTTGGCCACTCTGATCTTTCATCTGTGGTAAATAGTTTTCTAC
CTAAAGTACATTGTCTACAAATTTCAATTTACTGAGGATGTGTTGAAAGCATTATCCCTCAA
TTTTTTTTATGTCTGAATATGTTTTTAGTTTGCTACTCTTTATTTTTCTGGGTATGGAA
TTCCAGTTGTTTTTCAGTTGATGTTGATTGTGCTAGTCTAATTTGTCATTCTATGTAGAAGA
[T, A]
TTTTTTTTCTGGTACTGTAAAGATGGTTCCCTTTTTTGATATTCTGTATTTTCACAATGA
TATGTCTAAATATGGTTTAAAAATTTCTGCTTGAGATTTACTGAAATTTTGTATCTGAT
GTTTGATGTGTTGAATAATTTTGTATGAGCCTCAGCCATTATCCCTTTAAATATTTCTTC
ATTTTCTCTACTATTTTAGACCCCTCCGGATATCATCTATGTCTCAACTGCCATTTTAT
ATTTTCCATAAECTGTCTTCTTGATCTACATTTCTGATAATTTCTTCAATACTATCATCC

218692 AGCCACAAATATTAGTTTAAATGTTAATAGTTTCAGATTATTTTCATGCAGGGTATTACAA
TTTTGTCTTTTGGTTAAATAAGCTAGGAGTTTATGTCAGGTACATGAAAGAATACTAT
AGATCCATCCTTTTCCACATTATCCTATATCATTTTGTCTTCATAAATAAGAGCTACTAT
TGCCAAAGAAATGACATTTTCACTTAGTTTTTATTTTGGAAAGATTGTGTTGACAGCCATT
TCATAGTTTGCTCTTGCAATATTATAAATGATATTTTGAAGTTTCAACTTACCTATTT
[G, T]
ATTTCTCTTTAGTACTGAAGAAATATACCCAATATATCATTGAGGTGTCTGCTAGTACAC
TGAAAGGTGAAGGAGTTCCGAGTGTCTCCCAATAAGTATCTGACGGAGGAAGATGGTAAAT
ATAATAGTGGATATTGATATACTTTGATTCTATAACATTCCAAGAAACACACGTATAGAA
TGAAACAATGTAAAACTCCTCTAGTCATGGGTATCAGTTGTGTACCATACCAGCGTTAT
ACAGAGATTTCAATTGTGATGTTAATAAAGCTAGCAACATCAGATTTACATTCAGTGA

218705 AGTTTAAATGTTAATAGTTTCAGATTATTTTCATGCAGGGTATTACAATTTTGTCTTTTG
GTTAAATAAGCTAGGAGTTTATTGTCAGGTACATGAAAGAATACTATAGATCCATCCTTT
TCCACATTATCCTATATCATTTTGTCTTCATAAATAAGAGCTACTATTGCCAAAGAAATGA
CATTTTCACTTAGTTTTTATTTTGGAAAGATTGTGTTGACAGCCATTTTATAGTTTGCCT
CTTGCAATATTATAAATGATATTTTGAAGTTTCAACTTACCTATTGATTCTCTTTAG
[T, G]

FIGURE 3FFFF

ACTGAAGAAATATACCCAATATATCATTTGAGGTGTCTGCTAGTACACTGAAAGGTGAAGG
AGTTCCGAGTGTCTCCCATAGTATACTGACGGAGGAAGATGGTAAATATAATAGTGGATA
TTGATATACTTTGAATTTATAACATTTCAAGAAACACACGTATAGAATGAAACAATGTAA
AAACTCCTCTAGTCATGGGTATCAGTTGTGTACCATAACCAGCGTTATACAGAGATTTTCAT
TGTGATGGTATAAAAGAGCTAGCAACATCAGATTTACATTCAGTGAAATCAGGCATAAA

218754 TTTGCTTTTGGTTAAATAAGCTAGGAGTTTATTGCAGGTCACATGAAAGAATACTATAG
ATCCATCCTTTTCCACATTATCTATATCATTTTGTCTTCATAAATAAGAGCTACTATTG
CCAAAGAATGACATTTTCACTTAGTTTTTATTTTGGGAAGATTGTGTTGACAGCCATTTC
ATAGTTTGCCTCTTGCATATTATTAATGATATTTTGTAGTTTCAACTTACCTATTGTA
TTTCTCTTTAGTACTGAAGAAATATACCCAATATATCATTTGAGGTGTCTGCTAGTACACT
[G, C]
AAAGGTGAAGGAGTTCCGAGTGTCTCCCATAGTATACTGACGGAGGAAGATGGTAAATAT
AATAGTGGATATTGATATACTTTGATTCTATAACATTTCAAGAAACACACGTATAGAATG
AAACAATGTAAAACTCCTCTAGTCATGGGTATCAGTTGTGTACCATACCAGCGTTATAC
AGAGATTTTCATTTGTGATGTTATAAAAGAGCTAGCAACATCAGATTTACATTCAGTGAAA
TCAGGCATAAAATGTTTTTATTTTCTGAAGTCATCAGTACTCTGTAAAAAACAGTCAGT

218852 TCATAAATAAGAGCTACTATTGCCAAGAATGACATTTTCACTTAGTTTTTATTTTGGGA
AGATTGTGTTGACAGCCATTTTCATAGTTTGCCTCTTGCATATTATTAATGATATTTTGT
AAGTTTCAACTTACCTATTGATTTCTCTTTAGTACTGAAGAAATATACCCAATATATCA
TTGAGGTGTCTGCTAGTACACTGAAAGGTGAAGGAGTTCCGAGTGTCTCCCATAGTATAC
TGACGGAGGAAGATGGTAAATATAATAGTGGATATTGATATACTTTGATTTCTATAACATT
[C, T]
CAAGAAACACACGTATAGAATGAAACAATGTAAAACTCCTCTAGTCATGGGTATCAGTT
GTGTACCATACCAGCGTTATACAGAGATTTTCATTTGTGATGTTATAAAAGAGCTAGCAAC
ATCAGATTTACATTTAGTGAATTCAGGCATAAAATGTTTTTATTTTCTGAAGTCATCAG
TACTCTGTAAAAAACAGTCAGTCATGTTTTTCCATGGGGATTTTCAAGGCTTAAAATTTG
GTTTGAACGTTAACTGATATATGTCATGACTGAGTTTTTCAACTTTTACATTTTAAAGAA

219261 GAAGCTAGCAACATCAGATTTACATTCAGTGAAATCAGGCATAAAATGTTTTTATTTTC
TGAAGTCATCAGTACTCTGTAAAAAACAGTCAGTCATGTTTTTCCATGGGGATTTTCAAG
GCTTAAAAATTTGGTTTGAACGTTAACTGATATATGTCATGACTGAGTTTTTCAACTTTTA
CATTTTAAAGAATAGACATTAACATGAGCTTTGAAGCAGATTATGTTTATGTAATGTTTC
AGCACTTTTACGATATTAATGATTAACCTTGATAATGAGATCAGGCTATTGTACAGGCT
[T, C]
CTGCATAATTGGACAAGATGCTATTCCCCAAAGTTAGTAGCTTTCATACTGAATATTTAA
ACATACCTTTCCCTAACCCAAATAAAATCAACTTTACTACTGAGGCCACTTTACATTGAT
ACCTTACCAAGTTAGACATATATATGCTAAGAATATAACTTCTGAAAGATATATTTGGG
TTAGGATTTGCATTTTATGTTTTATACATTGCATATTTAAAGAAAATTATTATTTTTC
TGTAAAAGGAATTCCTATTTCCAAGAAGGGTAGGCCTGGAAGTATCATACGTGTTTGTGG

219359 TTTTCCATGGGGATTTTCAAGGCTTAAAAATTTGGTTTGAACGTTAACTGATATATGTCA
TGACTGAGTTTTTCAACTTTTACATTTTAAAGAATAGACATTAACATGAGCTTTGAAGCA
GATTATGTTTATGTAATGTTTCAGCACTTTTTTACGATATTAATGATTAACTTGATAATG
AGATCAGGCTATTGTACAGGCTTCTGCATAATTGGACAAGATGCTATTCCCCAAAGTTAG
TAGCTTTTCACTGAATATTTAAACATACCTTTCCCTAACCCAAATAAAATCAACTTTAC
[-, T]
ACTGAGGCCACTTTACATTGATACCTTACCAAGTTAGACATATATTATGCTAAGAATATA
ACTTCTGAAAGATATATTGGGTTAGGATTTGCATTTTATGTTTATACATTGCATATTT
AAAGAAATATTATTTTCTGTAAAAGGAATTCCTATTTCCAAGAGGGTAGGCCTG
GAAGTATCATACGTGTTTGTGGAGTATCTTTCTTTTTCATCTTCTTTCTTTCAAGTTT
CCCCATCTTCAAGCTAGGCCATAGCCTGTGACTGTTAAGGGCAGAATGTGCTTAGACACT

219362 TTCCATGGGGATTTTCAAGGCTTAAAAATTTGGTTTGAACGTTAACTGATATATGTCATGA
CTGAGTTTTTCAACTTTTACATTTTAAAGAATAGACATTAACATGAGCTTTGAAGCAGAT
TATGTTTATGTAATGTTTCAGCACTTTTTTACGATATTAATGATTAACTTGATAATGAGA
TCAGGCTATTGTACAGGCTTCTGCATAATTGGACAAGATGCTATTCCCCAAAGTTAGTAG
CTTTCATACTGAATATTTAAACATACCTTTCCCTAACCCAAATAAAATCAACTTTACTAC
[-, A, T]
GAGGCCACTTTACATTGATACCTTACCAAGTTAGACATATATTATGCTAAGAATATACT
TCTGAAAGATATATTGGGTTAGGATTTGCATTTTATGTTTATACATTGCATATTTAA
GAAAATTTATTTTCTGTAAAAGGAATTCCTATTTCCAAGAGGGTAGGCCTGGAA
GTATCATACGTGTTTGTGGAGTATCTTTCTTTTTCATCTTCTTTCTTTCAAGTTTCCC
CATCTTCAAGCTAGGCCATAGCCTGTGACTGTTAAGGGCAGAATGTGCTTAGACACTGCT

220577 CATCTAAATCTTGGCCAAGTCATATGATTTCTAAGGAACAGGGTAAAGAACAAAGACTCC
CTTGTTGAAAAATTACAGAAAATCGAGAATGGATAAAGATCTGAGAACATTTGCCTCTTT
GGGAATTAGGAATCCTTGCCTCATGAAGCTCAGCGTTAGAACAAGAGACCTAAATTTG
ACAAATGTGTGGACAAATAATTTTATGATTTTAAATTAAGTGGTATAAATGTTCCCCCA
ATTATTCACCAGGACAAAAGAGACCTAAGTTACTCTGGGGTGTGAGGTAAAGCGTAGC

FIGURE 3GGGG

[G, T]
 GTGGAAGTTATGTGCGAAGCTGTGACATGAAAAATGAATAAGAGGGAGGGTGAGAAATAGG
 AAAGATCATGCCAGGTAGAGGAGTGAGAGATTGTGAAGTCCTCATGCCAGGTAGAGGAG
 TGACAGATTGTGAAGTTCTTCTCAGCTACCTTGAGATGCTCTGAGATGACAAATTGAAT
 GCACTGCAAAAGTTCTAATTTTCTAGTTTCAATTTGTGTAGATTGATTTTAGAATACA
 TGTGCCAAATATTTTAGAATACATATGCCAAATGATTAAAACTTAGTCTGCTACAGTG

220995 GAGTGACAGATTGTGAAGTTTCTTCTCAGCTACCTTGAGATGCTCTGAGATGACAAATTG
 AATGCACTGCAAAAGTTCTAATTTTCTAGTTTCAATTTGTGTAGATTGATTTTAGAAT
 ACATGTGCCAAATATTTTAGAATACATATGCCAAATGATTAAAACTTAGTCTGCTACA
 GTGGATGTACAGTGATTTTGTAGATAGACATGTTAATTACGTTTACTTAGCAATAAAAT
 GTTTTACATTAAAGAATAAAATATTCGGAGATCTACTGAAGTTAGCTTTTAAAGACACCA
 [C, T]
 GCTTTATCTGGTATTTCCACATAAGCATCTTAAAGCATATTATAGAGTAGAAATGGTTAGT
 TGCAACATATTAGTTTCTAAGTTACTGCTATTTTAATTGAAGTCCTTTTGTAAACAAT
 AAACAGATTTTACAAGGATGCTAGGAAAAATATTTATAGGTATTTGCTTTGACAAATGAA
 AGAGAATTTTCAAGATAATTCTTATCTTGGGAAACAGACATCTCTAACTGATGTATACA
 TTCTGTGATAATCAATATTTGATAGCAACATTATTATAGTGCCAGTGAAAATAACAGAA

225263 TCTTACTGGAAGTGTGCCTATTTGCAGAATTAAAGAACACGATCAGAACTGGAAAGCAAA
 TACTAATAGTGTGAGTCTTACAATGAGAAAAGAAAAAATTTTACCTATGTAGAAGTC
 AAAATAAAGATTGTGTAGTACTATTTTCTCATGAAGAAACATAGCTTAAAGAATAGGCAAC
 CTTTTTCTAACTGACATCTGAGTATTATATAATATAGGTATTTTCTGTCAATATGTACAC
 ATTCAGATTAAATTAACATGTCAATATATGCTATTGGGGATAATTAAAAATTTTAAATGTG
 [C, T]
 TGTAAGAACTATTGCTGATAGGAAGGTGATTTAGTCAACCTAGTTCTGCTTAGATCTAT
 TTTTATGGAGCTTGAATTTTATTCCTGTGAATTCTCTTATTTAAGGCTATTGGGAAGC
 CCTTACTCTCCGTTTCACTCACACTTTATAAATCATTCTTGTGACCTTTACTCTGTTCA
 AATAAATGTTAGCCATTGCAGAATTCAAAGGGTATTTGGCATGATACATTTGATGTCTT
 CAGTGAAGTAATGTTATAGGAAAAATCCTGTTAAGTATTTTACATGTGCTATTTTCATTT

226704 AATTGACTTAGTCATGAGTTTGTGCTTTAAAAATAATAAAGAACATAAATAAAAACTGACA
 CTAATAATACATATAATTCTCAGTAGCATGGCCACTTAATTAGTTTGTAGAGTTCTTTCGGA
 TAGCTAATTTATTTCTTAAATATATATTTATTTCTGATTATAAAGAACAGTAAATGTT
 ATCTTACAAAATTTGAAAAACAAGAATAAAAAATGAAAAATATCCATAGACTTATCAT
 ATAAAAAATGCTTTTATCATTTTGGTGCATTTCTGGCTTGTCTATTTCCCCCATTAATAT
 [G, A]
 TATCTATATGACTATACATTAATGAAAAATAAGCTTGTGCTACATATGCAAGTTTATATCC
 TGCCTTTTCTTTTAAACATGAAGTCATAAGCTTGTATAAACATAAGACTTTTGGAAACAC
 GGATTTTAATGGTTATTATATTATTTGGGTAAACATGCAGTCATTACCAACCAATTTAAGA
 TACCTCCATTCTCCAGGGGCATAGAGGAAAAATCTTGATGTCACCTGTGGCTCTTTTCT
 CTCACAGTACACATCTAATCTATCAGTAAATCTTACCAGCACAAATCATCAAGTGATTC

228390 CCTCGGCAACCAATGGCAAAATTACCAGCTTCAAGATTAGTGTCAAGCATGCCAGAAGT
 GGGATAGTAGTGAAAGATGTCTCAATCAGAGTAGAGGACATTTTACTGGGAAATTGCCA
 GAATGCAATGTAAGTATCAGAAACACTTTCTATGTCTTGAAAAATCTTAGATAAATTTA
 ATTTTCAATTTCTAGCATCTAGATACTATATTTTACCAGTATTTATAGTTATTTGA
 TTACTTATGTTATCATGTTATACACAACGTTTATTATTGATTACTTAGGGTATCATGT
 [T, A]
 ACACAAATGGCCTCATTGAGGTAGAATACAGGAATGGTTTGAGAATTCAAGAGTGAGGGA
 TTAATAATCATTAGGGAATTCGGAAAAGACTTCATCAAAGGAGTAGCATTGTGTATACAC
 CATGGAGCAAGGACAGATAGAGATTTGTGATGGTGGCATTCCCGGTGGAGGATACTTTA
 TAAAGCCCTGAGGTGGAAGGTGTAAGATATAATTGGAGAAAAATTTTACTTCCATATG
 ACAGGAGGGAAGAGTACATGTAGGGTAATAGTTGAGGTAAATTTGCAGAGGTAGACTGT

228472 CAATCAGAGTAGAGGACATTTTACTGGGAAATTGCCAGAATGCAATGTAAGTATCACAG
 AACACTTTCTATGTCTTGAAAAATCTTAGATAAATTTAATTTTCTATTTCTAGCATCTA
 GATACTATATTTTACCAGGTTTATTAGTTATTTGATTACTTATGGTATCATGTTATA
 CACAACGTTTATTATTTGATTACTTAGGGTATCATGTTACACAATTTGGCCTCATTCAGG
 TAGAATACAGGAATGGTTTGAGAATTCAAGAGTGAGGGATTAAAAATCATTAGGGAATTC
 [G, T]
 GAAAAGACTTCATCAAAGGAGTAGCATTTGTGATACACCATGGAGCAAGGACAGATAGAG
 ATTTTGTGATGGTGGCATTCCCGGTGGAGGATACTTTATAAAGCCCTGAGGTGGAAAAGT
 GTAAGATATAATTGGAGAAAAATTTTACTTCCATATGACAGGAGGGAAGAGTACATGTA
 GGGTAATAGTTGAGGTTAAATTTGCAGAGGTAGACTGTCATTGTTGTGATATCTTGGT
 AAAGAATTTGTGCTTACTCTGGTCATTGATGATAAACCTCATAATAGTAATGCTTTTATTA

229014 AAGAATTTGTGCTTACTCTGGTCATTGATGATAAACCTCATAATAGTAATGCTTTTATTAT
 AGAATAAGCATCGTCATTTTAAATTATATGATAAGCATAAATAGCTTTTCCATAAATCAT
 TTTGGTAATCTCTGTGTACTATTAATGCAACACAGTCAAACAGTTATTTTGTGCTGTA
 ATACTTTATAAAGTCTAAAAATCTTCTTTTCAACTTATGATATAGTTCTAATACACGC

FIGURE 3HHHH

ACACACCTAACGTGTGAGCTAGTGGCATACTACTACTTTTGTAGTACTTATGAGAAAAAA
[A, C]
GTTCAATTAACAGTAAGAAAGCAGCATTTGAACATACACAAGAGTAAATTTATTTTTCAGCTC
TTTGGCTCTTGCACTGTTAATCATGAAGCTTAAAAATTTTACAGATGATTGTGCTGTAGT
TTTACCTTTATTTTAAGCCACTTGAAATTTCTATTCTGTAAGGTTAAGGTATAAGGAATAC
AATAAATATGTCCTCTTCTAAACTGCAGACATAAATGGGTACAATTTAAATCTAGCAAA
TTTGTCTATAACTTTTGCATGTTATGTGTATGTATAAGCATAAAAGAAAAAGAAATGA

229585 TATGTATAAGCATAAAAGAAAAAGAAATGAATTACATGTTCTTATCTTATGTTTACC
GAGATACAACATTATTTCTCTATTGATCTTATTTTATTTACTAGGAGAATAGTGAATCTT
TTTTATGGAGTACAGCCAGCCCTTCTCCAACCCTTGGTAGAGTTACACCTCCATCGCGTA
CCACACATTTCATCAAGCACGTTGACACAGAATGAGATCAGCTCTGTGTGGAAAGAGCCTA
TCAGTTTTGTAGTGACACACTTGAGACCTTATACAACATATCTTTTGAAGTTTCAGCTG
[C, T]
TACAACCTGAAGCAGGTTATATTGATAGTACGATTGTGAGAACCAGAAATCAGGTATGGT
TCACCTTTTGTAGATAAAAAGATTTAAATGATTAGAGAATAATGTTTAAATTTATGTAGAT
ATTTAATTTTAACTCTTCTTACCTTTTACGTAACCTTTTCCCTAATAATATACCATAGG
CATCCCATCAAGGGTTTCTTCAATTTCTATACTCTTTATATTATAGCAGAAAAATAGT
ATTTGAAAGGAGAAAGATTGCAAAAAACAATTCTTGAGCCACTGACCGTGATCCTCATA

237335 ACCAACTATAGTAACAGGGAATTTAGTTATAGAGTTGAATTATATGGACCATCAGGTAA
GCCTTAATTTGGTTTGTGTTTGCCTTTTGGAGTGAGAATAATAAATATGTTACCAATAT
CAAACCTCTGTTTAAAGTATCAGACTCTTTTAAAGACTTTAAGATTGAAGCAAAACAAT
AGGAAAGTCATAAGGAAGGGAGGTCCTTTGATTTTAAATCAAACCATAAATGAGTA
TAAGAATGACAAAATATTCTATGTTCCACATTTCTATGTATGATGATGTGAAAACTAGAGA
[T, G]
AACTCCTCAAGAAAAAAGTGTAGTGGAGATATACATCTTCAAATATTTGAACAAGAAGT
CCTTGGCTTACATTCATGAAGAACAATGGACTTTGACTATATTAAATTAGATTCTTATTC
ACTGCTAGGAGCCTAGTTTAAATCATTAGAAAGAGCTCTCTAAAAATAACATGGAAAAAT
CTCTGTATCTTCTGCTCTATTTTGTGTGGACCTAAACTGCTTTAAAAAGAAAAACCTA
TTAAATTTTGGGCAGCTTTATAAAGTGGCAAGTTCTCCAACCTTTGTAAGCAAGCAGGA

237771 GTTTTAAATCATTAGAAAGAGCTCTCTAAAAATAACATGGAAAAATCTCTGTATCTTCTGC
TCTATTTTCTGTGGACCTAAACTGCTTTAAAAAGAAAAACCTATTAAAAATTTTGGGC
AGCTTTATAAAGTGGCAAGTTCTCCAACCTTGTAAAGCAAGCAGGACCTGGGCATCCACTT
GCCAGAGATACTTTGAGAGGATCAAGTATTATATCATTAGGATCAAGTATTATATCATT
GAAGTGAATTATGTAAGTCTAAATTTCTCTCTGATTGAGAGCCTCTGATTCTATGAAA
[T, G]
AAGTTAATTCTAACAATGATGAGATAAATAAAGCCACATATTATCATTATTTTGGG
GGCATCAAAAAAGATACAGAGTTCCAACCTATTTATTTTGAATTTCTGTGGTATGAAT
CACTCATCACCATCATGAGTAACCTTTATCTTTTATCCCTAAGTAACCTATGCTCCTAAA
ATTCTGAAATACCTTTACTTCTTAAAAAAGATAATTCCTCCACTCACCATCCGATAC
ACAGAAACAGACATGGATACAGCTACATCTTTCTGTCTGACATTATTGTTCAATACT

239304 AGGTGATTAAATCAATGGATTGTTGATTTTCACTGGATTAAAGAAATTATCAGTTTCAAGT
TATAGAGGAAATGTAAGGAAGTAAGCAAAAGTGGTTAGAAAAAGTTGCATGAAATTGA
GATTCTTAATGATACGGAGTAATTGGTGATAGTAATGTCCAAGTTATGATCTTGAGGGAG
TGGCTGAAATTTTGAAAACTAGATTATTTAAGGAAATATCTAAGTAATTTAAGGATTAA
GTCTCAGGATATTAAATCAGCACAAATTAAGATGGTAGCCTTGAACCAAAGCTAGACCA
[T, C]
GAAAGTAAATGAGAGTAAATGACCCTCAGGTTAGTAGATTACGACAACTGTGAGGGCTAG
TGGATTTCACTGGTGATACAGTATTAAAGCTGTGGGCTTTTATAAGGAGGGAGAGAGAA
TAGTAAATAAAGTGGAGCAATGAGGAGCAAGGACAACACCTACACACCTAAAGGCCTGG
TTACTTGAGAGCTGTGGGGCAAAACAGACTGCCACCATTGGGGTGGCTGCAGGGGAAC
AAAAACAGTGTCTCAGGAAAGAGCCAGTTGTAGTTAGAGCAAGAAGGTAAAGGAAACA

239767 CCACACCTAAAGGCCTGGTTACTTGAGAGCTGTGGGGCAAAACAGACTGCCACCATTG
GGGTGGCTGCAGGGGAACAAAAACAGTGTCTCAGGAAAGAGCCAGTTGTAGTTAGAGC
AAGAAGGTAAGGAAACATTTAAAGCAAGTCAAGATTAAAGTATTGTGCTGACAGAC
TAAGGAATTTTGTTCAGAAGCTAACTAGAAATATTTCTAAATATATCTCTTATAGAA
GATAATGAAATATTTAGCATTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACGAGTCT
[C, T]
GCTCTGTGCGCCAGGCTGGAGTGAGTGCGGGATCTCGGCTCACTGCAAGCTCCGCCTC
CCGGGTTACGCCATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCGC
CACTACGCGCCGCTAATTTTTGTATTTTGTAGAGACGGGTTTACCGTTTTAGCCG
GGATGGTCTCGATCTCTGACCTCGTGATCCGCGCCCTCGGCCTCCCAAAGTTATTTAG
CATTTAATTGAATAAAATTTGAGTATAAAATCTGGTCACCTTTTGAAGTATAAAATTTG

Chromosome map:
Chromosome 12

FIGURE 3IIII